

Occupational Projections for Milwaukee and WOW Wisconsin Workforce Development Areas, 2004-2014 Projections
(Milwaukee, Ozaukee, Washington, and Waukesha Counties)

SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
00-0000	Total, All Occupations	824,170	934,470	110,300	13.4%	11,030	19,440	30,470		\$39,179	\$8.79	\$23.86
11-0000	Management Occupations	32,070	36,970	4,900	15.3%	490	600	1,090		\$94,967	\$23.91	\$56.53
11-1011	Chief Executives	1,350	1,540	190	14.1%	20	30	50	Bachelor's or higher degree + work experience	\$167,851	Not Available	Not Available
11-1021	General and Operations Managers	8,720	10,070	1,350	15.5%	140	170	310	Bachelor's or higher degree + work experience	\$106,407	\$24.88	\$64.30
11-1031	Legislators	1,230	1,160	-70	-5.7%	<5	20	20	Bachelor's or higher degree + work experience	\$22,594	\$5.92	\$13.33
11-2011	Advertising and Promotions Managers	260	310	50	19.2%	10	10	20	Bachelor's or higher degree + work experience	\$85,578	\$22.85	\$50.29
11-2021	Marketing Managers	730	860	130	17.8%	10	10	20	Bachelor's or higher degree + work experience	\$111,472	\$33.00	\$63.89
11-2022	Sales Managers	1,630	1,930	300	18.4%	30	30	60	Bachelor's or higher degree + work experience	\$107,017	\$26.80	\$63.77
11-2031	Public Relations Managers	250	300	50	20.0%	10	<5	10	Bachelor's or higher degree + work experience	\$91,349	\$24.38	\$53.69
11-3011	Administrative Services Managers	970	1,100	130	13.4%	10	20	30	Bachelor's or higher degree + work experience	\$80,768	\$26.07	\$45.21
11-3021	Computer and Information Systems Managers	1,760	2,190	430	24.4%	40	30	70	Bachelor's or higher degree + work experience	\$98,034	\$33.16	\$54.12

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11-3031	Financial Managers	2,080	2,420	340	16.3%	30	30	60	Bachelor's or higher degree + work experience	\$108,848	\$32.14	\$62.43
11-3041	Compensation and Benefits Managers	290	340	50	17.2%	10	10	20	Bachelor's or higher degree + work experience	\$79,782	\$23.46	\$45.81
11-3042	Training and Development Managers	200	240	40	20.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$72,463	\$16.08	\$44.22
11-3049	Human Resources Managers, All Other	330	380	50	15.2%	10	10	20	Bachelor's or higher degree + work experience	\$100,095	\$30.22	\$57.07
11-3051	Industrial Production Managers	1,530	1,580	50	3.3%	10	30	40	Bachelor's or higher degree + work experience	\$82,358	\$26.95	\$45.92
11-3061	Purchasing Managers	450	470	20	4.4%	<5	10	10	Bachelor's or higher degree + work experience	\$79,212	\$24.59	\$44.83
11-3071	Transportation, Storage, and Distribution Managers	430	490	60	14.0%	10	10	20	Work experience in a related occupation	\$75,155	\$24.27	\$42.06
11-9011	Farm, Ranch, and Other Agricultural Managers	*	*	*	*	<5	<5	<5	Bachelor's or higher degree + work experience	*	*	*
11-9021	Construction Managers	520	630	110	21.2%	10	10	20	Bachelor's degree	\$97,103	\$31.05	\$54.50
11-9031	Education Administrators, Preschool and Child Care Center/Program	340	430	90	26.5%	10	10	20	Bachelor's or higher degree + work experience	*	*	*
11-9032	Education Administrators, Elementary and Secondary School	920	1,010	90	9.8%	10	20	30	Bachelor's or higher degree + work experience	\$89,329	Not Available	Not Available

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11-9033	Education Administrators, Postsecondary	730	860	130	17.8%	10	20	30	Bachelor's or higher degree + work experience	\$65,646	\$19.88	\$37.40
11-9039	Education Administrators, All Other	120	130	10	8.3%	<5	<5	<5	Bachelor's or higher degree + work experience	\$67,579	\$21.90	\$37.78
11-9041	Engineering Managers	1,270	1,420	150	11.8%	20	30	50	Bachelor's or higher degree + work experience	\$93,941	\$33.64	\$50.92
11-9051	Food Service Managers	950	1,110	160	16.8%	20	20	40	Work experience in a related occupation	\$47,359	\$15.24	\$26.53
11-9061	Funeral Directors	190	200	10	5.3%	<5	10	10	Associate degree	\$56,021	\$14.66	\$33.07
11-9071	Gaming Managers	30	30	0	0.0%	<5	<5	<5	Work experience in a related occupation	*	*	*
11-9081	Lodging Managers	170	220	50	29.4%	10	<5	10	Work experience in a related occupation	\$50,407	\$15.92	\$28.39
11-9111	Medical and Health Services Managers	1,360	1,710	350	25.7%	40	30	70	Bachelor's or higher degree + work experience	\$86,408	\$25.78	\$49.42
11-9121	Natural Sciences Managers	130	150	20	15.4%	<5	<5	<5	Bachelor's or higher degree + work experience	\$102,186	\$33.39	\$57.00
11-9131	Postmasters and Mail Superintendents	240	240	0	0.0%	<5	10	10	Work experience in a related occupation	\$67,533	\$26.08	\$35.66
11-9141	Property, Real Estate, and Community Association Managers	230	290	60	26.1%	10	<5	10	Bachelor's degree	\$63,299	\$16.98	\$37.16

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11-9151	Social and Community Service Managers	770	950	180	23.4%	20	20	40	Bachelor's degree	\$52,576	\$17.58	\$29.12
11-9199	Managers, All Other	1,900	2,170	270	14.2%	30	40	70	Work experience in a related occupation	\$91,759	\$28.36	\$51.99
13-0000	Business and Financial Operations Occupations	36,070	43,290	7,220	20.0%	720	640	1,360		\$56,018	\$15.70	\$32.55
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	40	40	0	0.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$41,395	\$13.19	\$23.26
13-1021	Purchasing Agents and Buyers, Farm Products	70	80	10	14.3%	<5	<5	<5	Work experience in a related occupation	\$45,333	\$15.35	\$25.02
13-1022	Wholesale and Retail Buyers, Except Farm Products	690	770	80	11.6%	10	20	30	Bachelor's degree	\$46,590	\$13.84	\$26.68
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	2,520	2,720	200	7.9%	20	60	80	Bachelor's degree	\$49,231	\$16.79	\$27.11
13-1031	Claims Adjusters, Examiners, and Investigators	1,580	1,850	270	17.1%	30	20	50	Long-term on-the-job training	\$47,410	\$15.28	\$26.55
13-1032	Insurance Appraisers, Auto Damage	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$42,728	\$15.85	\$22.89
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	760	880	120	15.8%	10	20	30	Long-term on-the-job training	\$58,886	\$18.87	\$33.03
13-1051	Cost Estimators	1,420	1,700	280	19.7%	30	30	60	Bachelor's degree	\$54,872	\$16.41	\$31.37

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13-1061	Emergency Management Specialists	60	70	10	16.7%	<5	<5	<5	Work experience in a related occupation	\$55,166	\$17.76	\$30.90
13-1071	Employment, Recruitment, and Placement Specialists	1,260	1,710	450	35.7%	50	20	70	Bachelor's degree	\$49,579	\$14.85	\$28.33
13-1072	Compensation, Benefits, and Job Analysis Specialists	640	780	140	21.9%	10	10	20	Bachelor's degree	\$52,756	\$17.95	\$29.07
13-1073	Training and Development Specialists	1,280	1,540	260	20.3%	30	20	50	Bachelor's degree	\$48,597	\$15.61	\$27.24
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	2,280	2,690	410	18.0%	40	40	80	Bachelor's degree	\$37,877	\$6.12	\$24.26
13-1081	Logisticians	350	380	30	8.6%	<5	10	10	Bachelor's degree	\$62,353	\$22.83	\$33.55
13-1111	Management Analysts	1,900	2,290	390	20.5%	40	30	70	Bachelor's or higher degree + work experience	\$63,137	\$20.14	\$35.46
13-1121	Meeting and Convention Planners	310	370	60	19.4%	10	10	20	Bachelor's degree	\$36,320	\$12.93	\$19.73
13-1199	Business Operations Specialists, All Other	6,300	8,110	1,810	28.7%	180	110	290	Bachelor's degree	\$59,994	\$17.38	\$34.57
13-2011	Accountants and Auditors	6,840	8,360	1,520	22.2%	150	130	280	Bachelor's degree	\$62,293	\$20.32	\$34.76
13-2021	Appraisers and Assessors of Real Estate	380	480	100	26.3%	10	10	20	Postsecondary vocational training	\$37,965	\$9.33	\$22.72

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13-2031	Budget Analysts	170	190	20	11.8%	<5	<5	<5	Bachelor's degree	\$60,181	\$22.23	\$32.29
13-2041	Credit Analysts	340	340	0	0.0%	<5	10	10	Bachelor's degree	\$55,172	\$17.76	\$30.91
13-2051	Financial Analysts	730	890	160	21.9%	20	10	30	Bachelor's degree	\$68,802	\$21.10	\$39.07
13-2052	Personal Financial Advisors	1,060	1,390	330	31.1%	30	10	40	Bachelor's degree	\$93,638	\$20.02	\$57.52
13-2053	Insurance Underwriters	810	860	50	6.2%	10	10	20	Bachelor's degree	\$53,001	\$17.88	\$29.28
13-2061	Financial Examiners	150	170	20	13.3%	<5	<5	<5	Bachelor's degree	\$66,591	\$17.91	\$39.07
13-2071	Loan Counselors	60	70	10	16.7%	<5	<5	<5	Bachelor's degree	\$56,219	\$16.34	\$32.37
13-2072	Loan Officers	2,760	3,080	320	11.6%	30	40	70	Bachelor's degree	\$58,377	\$14.19	\$35.00
13-2081	Tax Examiners, Collectors, and Revenue Agents	180	180	0	0.0%	<5	<5	<5	Bachelor's degree	\$65,282	\$21.35	\$36.40
13-2082	Tax Preparers	620	660	40	6.5%	<5	10	10	Moderate-term on-the-job training	\$28,744	\$9.78	\$15.84
13-2099	Financial Specialists, All Other	450	550	100	22.2%	10	10	20	Bachelor's degree	\$60,549	\$16.73	\$35.30

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15-0000	Computer and Mathematical Occupations	18,330	23,840	5,510	30.1%	550	240	790		\$61,738	\$19.24	\$34.90
15-1011	Computer and Information Scientists, Research	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
15-1021	Computer Programmers	2,410	2,410	0	0.0%	<5	60	60	Bachelor's degree	\$63,584	\$20.67	\$35.52
15-1031	Computer Software Engineers, Applications	3,210	4,680	1,470	45.8%	150	30	180	Bachelor's degree	\$69,250	\$24.65	\$37.61
15-1032	Computer Software Engineers, Systems Software	1,200	1,750	550	45.8%	60	10	70	Bachelor's degree	\$87,512	\$28.51	\$48.85
15-1041	Computer Support Specialists	3,100	3,730	630	20.3%	60	40	100	Associate degree	\$40,140	\$13.78	\$22.06
15-1051	Computer Systems Analysts	3,640	4,740	1,100	30.2%	110	40	150	Bachelor's degree	\$66,876	\$23.31	\$36.58
15-1061	Database Administrators	530	730	200	37.7%	20	10	30	Bachelor's degree	\$64,255	\$21.40	\$35.64
15-1071	Network and Computer Systems Administrators	1,910	2,630	720	37.7%	70	20	90	Bachelor's degree	\$59,191	\$20.85	\$32.26
15-1081	Network Systems and Data Communications Analysts	1,210	1,870	660	54.5%	70	10	80	Bachelor's degree	\$59,212	\$20.66	\$32.37
15-1099	Computer Specialists, All Other	540	640	100	18.5%	10	10	20	Associate degree	\$49,032	\$12.71	\$29.01

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15-2011	Actuaries	190	250	60	31.6%	10	10	20	Bachelor's or higher degree + work experience	\$112,229	\$30.08	\$65.90
15-2021	Mathematicians	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
15-2031	Operations Research Analysts	220	240	20	9.1%	<5	10	10	Master's degree	\$60,026	\$21.55	\$32.51
15-2041	Statisticians	70	70	0	0.0%	<5	<5	<5	Master's degree	\$67,017	\$20.75	\$37.96
15-2091	Mathematical Technicians	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
15-2099	Mathematical Science Occupations, All Other	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
17-0000	Architecture and Engineering Occupations	16,050	17,790	1,740	10.8%	170	370	540		\$58,514	\$18.70	\$32.85
17-1011	Architects, Except Landscape and Naval	420	500	80	19.0%	10	10	20	Bachelor's degree	\$58,725	\$19.50	\$32.60
17-1012	Landscape Architects	120	140	20	16.7%	<5	<5	<5	Bachelor's degree	\$57,382	\$19.76	\$31.50
17-1021	Cartographers and Photogrammetrists	*	*	*	*	<5	<5	<5	Bachelor's degree	\$92,973	\$23.14	\$55.48
17-1022	Surveyors	260	290	30	11.5%	<5	10	10	Bachelor's degree	\$48,238	\$13.92	\$27.83

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17-2011	Aerospace Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2021	Agricultural Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2031	Biomedical Engineers	120	140	20	16.7%	<5	<5	<5	Bachelor's degree	\$83,207	\$29.99	\$45.01
17-2041	Chemical Engineers	110	120	10	9.1%	<5	<5	<5	Bachelor's degree	\$66,362	\$26.26	\$34.73
17-2051	Civil Engineers	940	1,060	120	12.8%	10	20	30	Bachelor's degree	\$63,446	\$23.04	\$34.24
17-2061	Computer Hardware Engineers	*	*	*	*	10	10	20	Bachelor's degree	\$78,087	\$30.53	\$41.05
17-2071	Electrical Engineers	1,560	1,690	130	8.3%	10	30	40	Bachelor's degree	\$74,603	\$26.89	\$40.36
17-2072	Electronics Engineers, Except Computer	820	890	70	8.5%	10	20	30	Bachelor's degree	\$71,770	\$25.65	\$38.93
17-2081	Environmental Engineers	300	410	110	36.7%	10	10	20	Bachelor's degree	\$70,580	\$24.07	\$38.87
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	100	120	20	20.0%	<5	<5	<5	Bachelor's degree	\$63,763	\$24.01	\$33.98
17-2112	Industrial Engineers	1,600	1,890	290	18.1%	30	40	70	Bachelor's degree	\$62,058	\$21.81	\$33.85

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17-2121	Marine Engineers and Naval Architects	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2131	Materials Engineers	150	180	30	20.0%	<5	<5	<5	Bachelor's degree	\$60,199	\$22.05	\$32.39
17-2141	Mechanical Engineers	2,230	2,480	250	11.2%	30	60	90	Bachelor's degree	\$62,628	\$22.08	\$34.12
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2161	Nuclear Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2171	Petroleum Engineers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
17-2199	Engineers, All Other	840	980	140	16.7%	10	20	30	Bachelor's degree	\$69,734	\$24.23	\$38.17
17-3011	Architectural and Civil Drafters	330	330	0	0.0%	<5	10	10	Postsecondary vocational training	\$43,562	\$15.09	\$23.87
17-3012	Electrical and Electronics Drafters	330	320	-10	-3.0%	<5	10	10	Postsecondary vocational training	\$47,631	\$16.23	\$26.23
17-3013	Mechanical Drafters	1,170	1,220	50	4.3%	10	30	40	Postsecondary vocational training	\$45,445	\$16.25	\$24.65
17-3019	Drafters, All Other	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$51,449	\$16.78	\$28.71

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17-3021	Aerospace Engineering and Operations Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
17-3022	Civil Engineering Technicians	460	490	30	6.5%	<5	10	10	Associate degree	\$42,870	\$15.50	\$23.17
17-3023	Electrical and Electronic Engineering Technicians	1,350	1,390	40	3.0%	<5	30	30	Associate degree	\$46,791	\$16.95	\$25.27
17-3024	Electro-Mechanical Technicians	*	*	*	*	<5	10	10	Associate degree	\$48,314	\$16.81	\$26.44
17-3025	Environmental Engineering Technicians	100	120	20	20.0%	<5	<5	<5	Associate degree	\$38,097	\$13.52	\$20.71
17-3026	Industrial Engineering Technicians	540	610	70	13.0%	10	10	20	Associate degree	\$42,885	\$16.13	\$22.86
17-3027	Mechanical Engineering Technicians	500	540	40	8.0%	<5	10	10	Associate degree	\$48,290	\$16.74	\$26.45
17-3029	Engineering Technicians, Except Drafters, All Other	430	490	60	14.0%	10	10	20	Associate degree	\$47,966	\$17.07	\$26.06
17-3031	Surveying and Mapping Technicians	310	330	20	6.5%	<5	10	10	Moderate-term on-the-job training	\$37,218	\$14.35	\$19.67
19-0000	Life, Physical, and Social Science Occupations	7,260	8,520	1,260	17.4%	130	180	310		\$57,721	\$16.14	\$33.56
19-1011	Animal Scientists	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*

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SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
19-1012	Food Scientists and Technologists	90	110	20	22.2%	<5	<5	<5	Bachelor's degree	\$70,180	\$20.11	\$40.55
19-1013	Soil and Plant Scientists	120	150	30	25.0%	<5	<5	<5	Bachelor's degree	\$52,330	\$18.05	\$28.71
19-1021	Biochemists and Biophysicists	*	*	*	*	<5	<5	<5	Doctoral degree	\$62,638	\$26.19	\$32.08
19-1022	Microbiologists	110	140	30	27.3%	<5	<5	<5	Doctoral degree	\$54,413	\$17.79	\$30.35
19-1023	Zoologists and Wildlife Biologists	80	90	10	12.5%	<5	<5	<5	Doctoral degree	\$61,465	\$19.79	\$34.43
19-1029	Biological Scientists, All Other	130	150	20	15.4%	<5	<5	<5	Doctoral degree	\$67,182	\$19.50	\$38.70
19-1031	Conservation Scientists	160	160	0	0.0%	<5	10	10	Bachelor's degree	\$54,318	\$18.09	\$30.13
19-1032	Foresters	80	90	10	12.5%	<5	<5	<5	Bachelor's degree	\$65,629	\$23.15	\$35.75
19-1041	Epidemiologists	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-1042	Medical Scientists, Except Epidemiologists	380	500	120	31.6%	10	10	20	Doctoral degree	\$65,620	\$20.82	\$36.91
19-1099	Life Scientists, All Other	*	*	*	*	<5	<5	<5	Bachelor's degree	\$45,071	\$15.11	\$24.95

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
19-2011	Astronomers	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
19-2012	Physicists	100	110	10	10.0%	<5	<5	<5	Doctoral degree	\$100,198	\$16.93	\$63.79
19-2021	Atmospheric and Space Scientists	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
19-2031	Chemists	660	680	20	3.0%	<5	20	20	Bachelor's degree	\$53,117	\$17.55	\$29.53
19-2032	Materials Scientists	*	*	*	*	<5	<5	<5	Bachelor's degree	\$62,029	\$16.09	\$36.69
19-2041	Environmental Scientists and Specialists, Including Health	270	310	40	14.8%	<5	10	10	Master's degree	\$53,486	\$18.23	\$29.46
19-2042	Geoscientists, Except Hydrologists and Geographers	70	80	10	14.3%	<5	<5	<5	Master's degree	*	*	*
19-2043	Hydrologists	90	140	50	55.6%	10	<5	10	Master's degree	\$57,945	\$19.64	\$31.97
19-2099	Physical Scientists, All Other	140	160	20	14.3%	<5	<5	<5	Bachelor's degree	\$70,045	\$26.05	\$37.49
19-3011	Economists	60	70	10	16.7%	<5	<5	<5	Master's degree	\$67,570	\$23.15	\$37.15
19-3021	Market Research Analysts	1,650	1,980	330	20.0%	30	40	70	Master's degree	\$67,903	\$18.86	\$39.54

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19-3022	Survey Researchers	30	40	10	33.3%	<5	<5	<5	Master's degree	*	*	*
19-3031	Clinical, Counseling, and School Psychologists	660	830	170	25.8%	20	20	40	Doctoral degree	\$68,960	\$20.00	\$39.73
19-3032	Industrial-Organizational Psychologists	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3039	Psychologists, All Other	30	30	0	0.0%	<5	<5	<5	Master's degree	\$68,652	\$21.44	\$38.79
19-3041	Sociologists	30	30	0	0.0%	<5	<5	<5	Master's degree	\$50,208	\$18.38	\$27.02
19-3051	Urban and Regional Planners	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3091	Anthropologists and Archeologists	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3092	Geographers	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3093	Historians	*	*	*	*	<5	<5	<5	Master's degree	\$34,083	\$12.03	\$18.56
19-3094	Political Scientists	*	*	*	*	<5	<5	<5	Master's degree	*	*	*
19-3099	Social Scientists and Related Workers, All Other	120	140	20	16.7%	<5	<5	<5	Master's degree	\$77,131	\$20.68	\$45.28

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19-4011	Agricultural and Food Science Technicians	150	170	20	13.3%	<5	<5	<5	Associate degree	\$32,547	\$11.80	\$17.57
19-4021	Biological Technicians	310	350	40	12.9%	<5	10	10	Associate degree	\$34,594	\$11.26	\$19.32
19-4031	Chemical Technicians	370	400	30	8.1%	<5	10	10	Associate degree	\$34,633	\$11.54	\$19.21
19-4041	Geological and Petroleum Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
19-4061	Social Science Research Assistants	140	160	20	14.3%	<5	<5	<5	Associate degree	\$32,156	\$13.45	\$16.47
19-4091	Environmental Science and Protection Technicians, Including Health	120	140	20	16.7%	<5	<5	<5	Associate degree	\$39,635	\$12.21	\$22.48
19-4092	Forensic Science Technicians	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
19-4093	Forest and Conservation Technicians	90	100	10	11.1%	<5	<5	<5	Associate degree	\$39,878	\$15.87	\$20.82
19-4099	Life, Physical, and Social Science Technicians, All Other	580	740	160	27.6%	20	10	30	Associate degree	\$43,393	\$13.34	\$24.62
21-0000	Community and Social Services Occupations	15,630	18,810	3,180	20.3%	320	290	610		\$38,771	\$12.24	\$21.84
21-1011	Substance Abuse and Behavioral Disorder Counselors	480	610	130	27.1%	10	10	20	Master's degree	\$38,170	\$12.87	\$21.09

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21-1012	Educational, Vocational, and School Counselors	1,000	1,170	170	17.0%	20	20	40	Master's degree	\$46,858	\$14.76	\$26.41
21-1013	Marriage and Family Therapists	240	300	60	25.0%	10	10	20	Master's degree	\$69,872	\$16.75	\$42.02
21-1014	Mental Health Counselors	490	620	130	26.5%	10	10	20	Master's degree	\$42,605	\$13.24	\$24.10
21-1015	Rehabilitation Counselors	650	780	130	20.0%	10	20	30	Master's degree	\$36,778	\$12.03	\$20.51
21-1019	Counselors, All Other	260	300	40	15.4%	<5	10	10	Master's degree	\$39,657	\$15.09	\$21.05
21-1021	Child, Family, and School Social Workers	1,910	2,360	450	23.6%	50	30	80	Master's degree	\$40,039	\$13.95	\$21.90
21-1022	Medical and Public Health Social Workers	630	810	180	28.6%	20	10	30	Master's degree	\$43,804	\$16.24	\$23.47
21-1023	Mental Health and Substance Abuse Social Workers	640	820	180	28.1%	20	10	30	Master's degree	\$39,954	\$14.48	\$21.57
21-1029	Social Workers, All Other	290	320	30	10.3%	<5	10	10	Master's degree	\$54,626	\$20.87	\$28.96
21-1091	Health Educators	220	270	50	22.7%	10	<5	10	Master's degree	\$39,496	\$13.43	\$21.77
21-1092	Probation Officers and Correctional Treatment Specialists	170	190	20	11.8%	<5	<5	<5	Bachelor's degree	\$40,931	\$17.66	\$20.69

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21-1093	Social and Human Service Assistants	2,380	3,080	700	29.4%	70	40	110	Moderate-term on-the-job training	\$27,431	\$9.42	\$15.07
21-1099	Community and Social Service Specialists, All Other	690	900	210	30.4%	20	10	30	Bachelor's degree	\$32,563	\$10.38	\$18.29
21-2011	Clergy	3,860	4,310	450	11.7%	50	80	130	Master's degree	\$41,995	\$16.34	\$22.11
21-2021	Directors, Religious Activities and Education	*	*	*	*	20	10	30	Bachelor's degree	*	*	*
21-2099	Religious Workers, All Other	*	*	*	*	<5	10	10	Bachelor's degree	*	*	*
23-0000	Legal Occupations	5,030	5,770	740	14.7%	70	60	130		\$83,291	\$18.48	\$50.82
23-1011	Lawyers	3,000	3,430	430	14.3%	40	40	80	First professional degree	\$108,990	\$30.84	\$63.18
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	30	30	0	0.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$99,778	\$34.35	\$54.78
23-1022	Arbitrators, Mediators, and Conciliators	60	70	10	16.7%	<5	<5	<5	Bachelor's or higher degree + work experience	\$58,848	\$22.07	\$31.40
23-1023	Judges, Magistrate Judges, and Magistrates	70	80	10	14.3%	<5	<5	<5	Bachelor's or higher degree + work experience	\$102,408	\$42.18	\$52.76
23-2011	Paralegals and Legal Assistants	1,090	1,350	260	23.9%	30	10	40	Associate degree	\$45,639	\$14.93	\$25.45

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23-2091	Court Reporters	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
23-2092	Law Clerks	140	150	10	7.1%	<5	<5	<5	Bachelor's degree	\$47,327	\$15.96	\$26.15
23-2093	Title Examiners, Abstractors, and Searchers	400	420	20	5.0%	<5	<5	<5	Moderate-term on-the-job training	\$36,215	\$13.48	\$19.38
23-2099	Legal Support Workers, All Other	220	240	20	9.1%	<5	<5	<5	Bachelor's degree	\$45,876	\$16.37	\$24.90
25-0000	Education, Training, and Library Occupations	42,070	49,170	7,100	16.9%	710	880	1,590		\$43,227	\$11.87	\$25.24
25-1011	Business Teachers, Postsecondary	390	500	110	28.2%	10	10	20	Doctoral degree	\$74,179	Not Available	Not Available
25-1021	Computer Science Teachers, Postsecondary	120	150	30	25.0%	<5	<5	<5	Doctoral degree	\$60,210	Not Available	Not Available
25-1022	Mathematical Science Teachers, Postsecondary	230	290	60	26.1%	10	10	20	Doctoral degree	\$58,691	Not Available	Not Available
25-1031	Architecture Teachers, Postsecondary	20	20	0	0.0%	<5	<5	<5	Doctoral degree	\$62,320	Not Available	Not Available
25-1032	Engineering Teachers, Postsecondary	120	150	30	25.0%	<5	<5	<5	Doctoral degree	\$73,695	Not Available	Not Available
25-1041	Agricultural Sciences Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*

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25-1042	Biological Science Teachers, Postsecondary	170	220	50	29.4%	10	<5	10	Doctoral degree	\$65,018	Not Available	Not Available
25-1043	Forestry and Conservation Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	30	40	10	33.3%	<5	<5	<5	Doctoral degree	\$68,258	Not Available	Not Available
25-1052	Chemistry Teachers, Postsecondary	80	110	30	37.5%	<5	<5	<5	Doctoral degree	\$60,605	Not Available	Not Available
25-1053	Environmental Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1054	Physics Teachers, Postsecondary	70	90	20	28.6%	<5	<5	<5	Doctoral degree	\$60,955	Not Available	Not Available
25-1061	Anthropology and Archeology Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	30	40	10	33.3%	<5	<5	<5	Doctoral degree	\$62,712	Not Available	Not Available
25-1063	Economics Teachers, Postsecondary	60	80	20	33.3%	<5	<5	<5	Doctoral degree	\$77,442	Not Available	Not Available
25-1064	Geography Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1065	Political Science Teachers, Postsecondary	60	70	10	16.7%	<5	<5	<5	Doctoral degree	\$59,481	Not Available	Not Available

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25-1066	Psychology Teachers, Postsecondary	130	170	40	30.8%	<5	<5	<5	Doctoral degree	\$51,535	Not Available	Not Available
25-1067	Sociology Teachers, Postsecondary	60	80	20	33.3%	<5	<5	<5	Doctoral degree	\$56,776	Not Available	Not Available
25-1069	Social Sciences Teachers, Postsecondary, All Other	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1071	Health Specialties Teachers, Postsecondary	740	940	200	27.0%	20	20	40	Master's degree	*	*	*
25-1072	Nursing Instructors and Teachers, Postsecondary	270	340	70	25.9%	10	10	20	Doctoral degree	\$58,854	Not Available	Not Available
25-1081	Education Teachers, Postsecondary	330	420	90	27.3%	10	10	20	Doctoral degree	\$48,795	Not Available	Not Available
25-1082	Library Science Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	40	50	10	25.0%	<5	<5	<5	Doctoral degree	\$52,631	Not Available	Not Available
25-1112	Law Teachers, Postsecondary	*	*	*	*	<5	<5	<5	Doctoral degree	*	*	*
25-1113	Social Work Teachers, Postsecondary	40	60	20	50.0%	<5	<5	<5	Doctoral degree	\$59,994	Not Available	Not Available
25-1121	Art, Drama, and Music Teachers, Postsecondary	370	470	100	27.0%	10	10	20	Master's degree	\$56,305	Not Available	Not Available

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25-1122	Communications Teachers, Postsecondary	190	240	50	26.3%	10	<5	10	Doctoral degree	\$59,219	Not Available	Not Available
25-1123	English Language and Literature Teachers, Postsecondary	260	340	80	30.8%	10	10	20	Doctoral degree	\$58,673	Not Available	Not Available
25-1124	Foreign Language and Literature Teachers, Postsecondary	150	190	40	26.7%	<5	<5	<5	Doctoral degree	\$50,283	Not Available	Not Available
25-1125	History Teachers, Postsecondary	90	110	20	22.2%	<5	<5	<5	Doctoral degree	\$61,085	Not Available	Not Available
25-1126	Philosophy and Religion Teachers, Postsecondary	80	110	30	37.5%	<5	<5	<5	Doctoral degree	\$62,058	Not Available	Not Available
25-1191	Graduate Teaching Assistants	630	810	180	28.6%	20	10	30	Bachelor's degree	\$23,750	Not Available	Not Available
25-1192	Home Economics Teachers, Postsecondary	20	30	10	50.0%	<5	<5	<5	Doctoral degree	\$50,311	Not Available	Not Available
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	70	100	30	42.9%	<5	<5	<5	Master's degree	\$51,386	Not Available	Not Available
25-1194	Vocational Education Teachers, Postsecondary	710	890	180	25.4%	20	20	40	Work experience in a related occupation	\$59,949	\$17.80	\$34.33
25-1199	Postsecondary Teachers, All Other	740	940	200	27.0%	20	20	40	Doctoral degree	\$56,277	Not Available	Not Available
25-2011	Preschool Teachers, Except Special Education	2,960	3,890	930	31.4%	90	40	130	Bachelor's degree	\$22,642	\$8.94	\$11.86

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25-2012	Kindergarten Teachers, Except Special Education	780	910	130	16.7%	10	10	20	Bachelor's degree	\$43,288	Not Available	Not Available
25-2021	Elementary School Teachers, Except Special Education	7,060	7,990	930	13.2%	90	160	250	Bachelor's degree	\$50,074	Not Available	Not Available
25-2022	Middle School Teachers, Except Special and Vocational Education	3,630	3,910	280	7.7%	30	80	110	Bachelor's degree	\$48,080	Not Available	Not Available
25-2023	Vocational Education Teachers, Middle School	130	130	0	0.0%	<5	<5	<5	Bachelor's degree	\$46,521	Not Available	Not Available
25-2031	Secondary School Teachers, Except Special and Vocational Education	5,800	6,400	600	10.3%	60	160	220	Bachelor's degree	\$52,440	Not Available	Not Available
25-2032	Vocational Education Teachers, Secondary School	460	500	40	8.7%	<5	10	10	Bachelor's degree	\$49,778	Not Available	Not Available
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	800	980	180	22.5%	20	20	40	Bachelor's degree	\$47,786	Not Available	Not Available
25-2042	Special Education Teachers, Middle School	450	540	90	20.0%	10	10	20	Bachelor's degree	\$47,085	Not Available	Not Available
25-2043	Special Education Teachers, Secondary School	650	750	100	15.4%	10	20	30	Bachelor's degree	\$52,958	Not Available	Not Available
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	300	350	50	16.7%	10	<5	10	Bachelor's degree	\$46,574	\$13.74	\$26.71
25-3021	Self-Enrichment Education Teachers	1,150	1,340	190	16.5%	20	10	30	Work experience in a related occupation	\$29,879	\$7.81	\$17.64

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25-3099	Teachers and Instructors, All Other	2,550	3,010	460	18.0%	50	30	80	Bachelor's degree	\$33,407	\$12.94	\$17.62
25-4011	Archivists	30	30	0	0.0%	<5	<5	<5	Master's degree	\$44,291	\$15.48	\$24.20
25-4012	Curators	50	60	10	20.0%	<5	<5	<5	Master's degree	\$42,572	\$11.13	\$25.13
25-4013	Museum Technicians and Conservators	50	60	10	20.0%	<5	<5	<5	Master's degree	\$35,887	\$11.74	\$20.01
25-4021	Librarians	720	740	20	2.8%	<5	20	20	Master's degree	\$47,066	\$17.13	\$25.38
25-4031	Library Technicians	670	710	40	6.0%	<5	30	30	Postsecondary vocational training	\$24,580	\$7.83	\$13.81
25-9011	Audio-Visual Collections Specialists	20	30	10	50.0%	<5	<5	<5	Moderate-term on-the-job training	\$34,515	\$11.29	\$19.24
25-9021	Farm and Home Management Advisors	200	220	20	10.0%	<5	<5	<5	Bachelor's degree	\$43,103	\$14.78	\$23.69
25-9031	Instructional Coordinators	300	380	80	26.7%	10	10	20	Master's degree	\$58,411	\$17.05	\$33.60
25-9041	Teacher Assistants	6,280	7,320	1,040	16.6%	100	120	220	Associate degree	\$26,056	Not Available	Not Available
25-9099	Education, Training, and Library Workers, All Other	510	620	110	21.6%	10	10	20	Bachelor's degree	\$33,745	\$10.34	\$19.17

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SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	11,520	13,160	1,640	14.2%	160	220	380		\$41,562	\$10.45	\$24.75
27-1011	Art Directors	170	200	30	17.6%	<5	<5	<5	Bachelor's or higher degree + work experience	\$60,507	\$19.00	\$34.14
27-1012	Craft Artists	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	20	30	10	50.0%	<5	<5	<5	Long-term on-the-job training	\$46,448	\$15.46	\$25.77
27-1014	Multi-Media Artists and Animators	150	190	40	26.7%	<5	<5	<5	Bachelor's degree	\$45,822	\$14.87	\$25.61
27-1019	Artists and Related Workers, All Other	50	60	10	20.0%	<5	<5	<5	Long-term on-the-job training	\$41,386	\$13.47	\$23.11
27-1021	Commercial and Industrial Designers	270	290	20	7.4%	<5	<5	<5	Bachelor's degree	\$50,617	\$16.99	\$28.01
27-1022	Fashion Designers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
27-1023	Floral Designers	370	420	50	13.5%	10	10	20	Moderate-term on-the-job training	\$19,940	\$7.93	\$10.42
27-1024	Graphic Designers	1,420	1,630	210	14.8%	20	20	40	Bachelor's degree	\$40,637	\$14.06	\$22.27
27-1025	Interior Designers	280	330	50	17.9%	10	<5	10	Bachelor's degree	\$37,990	\$11.20	\$21.80

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-1026	Merchandise Displayers and Window Trimmers	210	230	20	9.5%	<5	<5	<5	Moderate-term on-the-job training	\$27,040	\$8.27	\$15.36
27-1027	Set and Exhibit Designers	*	*	*	*	<5	<5	<5	Bachelor's degree	\$38,913	\$14.69	\$20.72
27-1029	Designers, All Other	*	*	*	*	<5	<5	<5	Bachelor's degree	\$34,872	\$12.73	\$18.78
27-2011	Actors	90	100	10	11.1%	<5	<5	<5	Long-term on-the-job training	Not Available	\$8.57	\$19.88
27-2012	Producers and Directors	200	220	20	10.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$54,727	\$15.41	\$31.76
27-2021	Athletes and Sports Competitors	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$113,172	Not Available	Not Available
27-2022	Coaches and Scouts	830	970	140	16.9%	10	20	30	Long-term on-the-job training	\$34,794	Not Available	Not Available
27-2023	Umpires, Referees, and Other Sports Officials	*	*	*	*	10	10	20	Long-term on-the-job training	*	*	*
27-2031	Dancers	*	*	*	*	<5	10	10	Long-term on-the-job training	Not Available	\$7.56	\$11.70
27-2032	Choreographers	130	140	10	7.7%	<5	10	10	Work experience in a related occupation	\$29,321	\$9.88	\$16.21
27-2041	Music Directors and Composers	*	*	*	*	10	10	20	Bachelor's or higher degree + work experience	\$22,782	\$10.08	\$11.39

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-2042	Musicians and Singers	1,050	1,230	180	17.1%	20	20	40	Long-term on-the-job training	*	*	*
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
27-3011	Radio and Television Announcers	280	250	-30	-10.7%	<5	10	10	Long-term on-the-job training	\$36,767	\$7.51	\$22.76
27-3012	Public Address System and Other Announcers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$19,256	\$6.43	\$10.67
27-3021	Broadcast News Analysts	60	60	0	0.0%	<5	<5	<5	Bachelor's or higher degree + work experience	\$41,161	\$12.24	\$23.56
27-3022	Reporters and Correspondents	350	350	0	0.0%	<5	10	10	Bachelor's or higher degree + work experience	\$49,520	\$13.53	\$28.95
27-3031	Public Relations Specialists	1,600	1,920	320	20.0%	30	20	50	Bachelor's degree	\$48,645	\$15.06	\$27.55
27-3041	Editors	610	680	70	11.5%	10	20	30	Bachelor's degree	\$44,807	\$14.14	\$25.24
27-3042	Technical Writers	380	450	70	18.4%	10	10	20	Bachelor's degree	\$51,512	\$18.67	\$27.81
27-3043	Writers and Authors	400	470	70	17.5%	10	10	20	Bachelor's degree	\$45,688	\$13.14	\$26.38
27-3091	Interpreters and Translators	170	210	40	23.5%	<5	<5	<5	Long-term on-the-job training	\$40,422	\$14.97	\$21.66

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
27-3099	Media and Communication Workers, All Other	90	100	10	11.1%	<5	<5	<5	Long-term on-the-job training	\$44,994	\$13.40	\$25.75
27-4011	Audio and Video Equipment Technicians	180	200	20	11.1%	<5	<5	<5	Long-term on-the-job training	\$37,318	\$9.04	\$22.39
27-4012	Broadcast Technicians	240	250	10	4.2%	<5	10	10	Postsecondary vocational training	\$41,321	\$11.23	\$24.19
27-4013	Radio Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
27-4014	Sound Engineering Technicians	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$54,771	\$15.43	\$31.78
27-4021	Photographers	310	340	30	9.7%	<5	10	10	Bachelor's degree	\$32,708	\$10.47	\$18.35
27-4031	Camera Operators, Television, Video, and Motion Picture	90	90	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$48,169	\$13.44	\$28.02
27-4032	Film and Video Editors	20	30	10	50.0%	<5	<5	<5	Bachelor's degree	\$38,820	\$13.32	\$21.34
27-4099	Media and Communication Equipment Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$41,865	\$11.14	\$24.62
29-0000	Healthcare Practitioners and Technical Occupations	41,650	53,540	11,890	28.5%	1,190	780	1,970		\$65,654	\$16.07	\$39.31
29-1011	Chiropractors	260	380	120	46.2%	10	10	20	First professional degree	\$146,094	\$44.37	\$83.17

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-1021	Dentists, General	650	750	100	15.4%	10	10	20	First professional degree	\$136,835	\$44.50	\$76.43
29-1022	Oral and Maxillofacial Surgeons	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1023	Orthodontists	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1024	Prosthodontists	10	10	0	0.0%	<5	<5	<5	First professional degree	*	*	*
29-1029	Dentists, All Other Specialists	*	*	*	*	<5	<5	<5	First professional degree	*	*	*
29-1031	Dietitians and Nutritionists	320	380	60	18.8%	10	10	20	Bachelor's degree	\$46,561	\$18.12	\$24.52
29-1041	Optometrists	130	160	30	23.1%	<5	<5	<5	First professional degree	\$94,557	\$31.90	\$52.24
29-1051	Pharmacists	1,540	1,850	310	20.1%	30	30	60	First professional degree	\$90,002	\$29.82	\$50.00
29-1061	Anesthesiologists	*	*	*	*	<5	<5	<5	First professional degree	\$189,252	Not Available	Not Available
29-1062	Family and General Practitioners	470	600	130	27.7%	10	10	20	First professional degree	\$175,871	Not Available	Not Available
29-1063	Internists, General	*	*	*	*	10	10	20	First professional degree	\$185,918	Not Available	Not Available

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-1064	Obstetricians and Gynecologists	50	60	10	20.0%	<5	<5	<5	First professional degree	\$191,786	Not Available	Not Available
29-1065	Pediatricians, General	60	80	20	33.3%	<5	<5	<5	First professional degree	\$152,216	\$54.76	\$82.39
29-1066	Psychiatrists	90	120	30	33.3%	<5	<5	<5	First professional degree	\$162,778	\$54.92	\$89.93
29-1067	Surgeons	310	390	80	25.8%	10	<5	10	First professional degree	\$184,589	Not Available	Not Available
29-1069	Physicians and Surgeons, All Other	1,170	1,480	310	26.5%	30	20	50	First professional degree	\$179,390	Not Available	Not Available
29-1071	Physician Assistants	400	610	210	52.5%	20	10	30	Bachelor's degree	*	*	*
29-1081	Podiatrists	40	50	10	25.0%	<5	<5	<5	First professional degree	\$104,334	\$40.05	\$55.22
29-1111	Registered Nurses	14,740	19,760	5,020	34.1%	500	310	810	Associate or Bachelor's degree ⁽⁸⁾	\$56,643	\$22.61	\$29.54
29-1121	Audiologists	140	150	10	7.1%	<5	<5	<5	Doctoral degree	\$63,502	\$26.32	\$32.64
29-1122	Occupational Therapists	810	1,080	270	33.3%	30	10	40	Master's degree	\$50,684	\$20.09	\$26.50
29-1123	Physical Therapists	1,000	1,330	330	33.0%	30	10	40	Master's degree	\$63,248	\$21.78	\$34.72

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-1124	Radiation Therapists	130	160	30	23.1%	<5	<5	<5	Associate degree	\$74,452	\$29.30	\$39.04
29-1125	Recreational Therapists	170	180	10	5.9%	<5	<5	<5	Bachelor's degree	\$31,716	\$11.24	\$17.25
29-1126	Respiratory Therapists	460	620	160	34.8%	20	20	40	Associate degree	\$50,123	\$20.12	\$26.09
29-1127	Speech-Language Pathologists	570	640	70	12.3%	10	10	20	Master's degree	\$56,083	\$20.49	\$30.20
29-1129	Therapists, All Other	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
29-1131	Veterinarians	340	390	50	14.7%	10	10	20	First professional degree	\$110,220	\$23.32	\$67.82
29-1199	Health Diagnosing and Treating Practitioners, All Other	190	230	40	21.1%	<5	<5	<5	First professional degree	\$57,203	\$18.93	\$31.79
29-2011	Medical and Clinical Laboratory Technologists	1,200	1,570	370	30.8%	40	30	70	Bachelor's degree	\$50,841	\$18.95	\$27.19
29-2012	Medical and Clinical Laboratory Technicians	*	*	*	*	20	20	40	Associate degree	*	*	*
29-2021	Dental Hygienists	1,310	1,800	490	37.4%	50	10	60	Associate degree	\$54,833	\$24.53	\$27.28
29-2031	Cardiovascular Technologists and Technicians	220	280	60	27.3%	10	<5	10	Associate degree	\$43,389	\$13.91	\$24.33

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-2032	Diagnostic Medical Sonographers	320	430	110	34.4%	10	10	20	Associate degree	\$71,123	\$27.46	\$37.56
29-2033	Nuclear Medicine Technologists	120	150	30	25.0%	<5	<5	<5	Associate degree	\$65,363	\$27.01	\$33.63
29-2034	Radiologic Technologists and Technicians	1,310	1,720	410	31.3%	40	20	60	Associate degree	\$50,262	\$19.29	\$26.60
29-2041	Emergency Medical Technicians and Paramedics	1,890	2,280	390	20.6%	40	20	60	Postsecondary vocational training	\$26,849	\$8.54	\$15.09
29-2051	Dietetic Technicians	120	140	20	16.7%	<5	<5	<5	Moderate-term on-the-job training	\$25,395	\$8.54	\$14.04
29-2052	Pharmacy Technicians	2,000	2,460	460	23.0%	50	30	80	Moderate-term on-the-job training	\$24,167	\$8.73	\$13.06
29-2053	Psychiatric Technicians	290	320	30	10.3%	<5	<5	<5	Moderate-term on-the-job training	\$28,195	\$10.63	\$15.02
29-2054	Respiratory Therapy Technicians	*	*	*	*	<5	<5	<5	Associate degree	\$39,424	\$14.46	\$21.20
29-2055	Surgical Technologists	650	880	230	35.4%	20	10	30	Postsecondary vocational training	\$43,500	\$17.57	\$22.59
29-2056	Veterinary Technologists and Technicians	340	440	100	29.4%	10	<5	10	Associate degree	\$24,104	\$9.68	\$12.54
29-2061	Licensed Practical and Licensed Vocational Nurses	3,390	3,950	560	16.5%	60	70	130	Postsecondary vocational training	\$39,752	\$15.51	\$20.91

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
29-2071	Medical Records and Health Information Technicians	1,150	1,560	410	35.7%	40	20	60	Associate degree	\$30,412	\$10.49	\$16.68
29-2081	Opticians, Dispensing	540	600	60	11.1%	10	10	20	Long-term on-the-job training	\$28,646	\$10.13	\$15.59
29-2091	Orthotists and Prosthetists	*	*	*	*	<5	<5	<5	Bachelor's degree	\$53,997	\$19.55	\$29.16
29-2099	Health Technologists and Technicians, All Other	620	790	170	27.4%	20	10	30	Postsecondary vocational training	\$36,468	\$12.19	\$20.20
29-9011	Occupational Health and Safety Specialists	190	220	30	15.8%	<5	<5	<5	Bachelor's degree	\$54,860	\$18.29	\$30.42
29-9012	Occupational Health and Safety Technicians	30	40	10	33.3%	<5	<5	<5	Postsecondary vocational training	\$43,363	\$15.94	\$23.30
29-9091	Athletic Trainers	130	170	40	30.8%	<5	<5	<5	Bachelor's degree	\$40,488	Not Available	Not Available
29-9099	Healthcare Practitioners and Technical Workers, All Other	330	420	90	27.3%	10	10	20	Postsecondary vocational training	\$42,049	\$12.47	\$24.09
31-0000	Healthcare Support Occupations	24,150	31,480	7,330	30.4%	730	370	1,100		\$24,955	\$9.10	\$13.45
31-1011	Home Health Aides	4,630	7,090	2,460	53.1%	250	60	310	Short-term on-the-job training	\$20,599	\$8.71	\$10.50
31-1012	Nursing Aides, Orderlies, and Attendants	11,050	13,180	2,130	19.3%	210	150	360	Postsecondary vocational training	\$24,047	\$9.16	\$12.76

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
31-1013	Psychiatric Aides	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$19,719	\$7.74	\$10.35
31-2011	Occupational Therapist Assistants	200	250	50	25.0%	10	<5	10	Associate degree	\$35,473	\$14.07	\$18.54
31-2012	Occupational Therapist Aides	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$27,248	\$9.65	\$14.82
31-2021	Physical Therapist Assistants	350	470	120	34.3%	10	10	20	Associate degree	\$39,943	\$16.15	\$20.73
31-2022	Physical Therapist Aides	210	270	60	28.6%	10	<5	10	Short-term on-the-job training	\$23,445	\$8.34	\$12.74
31-9011	Massage Therapists	190	240	50	26.3%	10	<5	10	Postsecondary vocational training	\$35,461	\$8.93	\$21.11
31-9091	Dental Assistants	1,500	2,070	570	38.0%	60	40	100	Moderate-term on-the-job training	\$29,493	\$11.45	\$15.54
31-9092	Medical Assistants	1,790	2,640	850	47.5%	90	30	120	Moderate-term on-the-job training	\$28,583	\$11.22	\$15.00
31-9093	Medical Equipment Preparers	250	320	70	28.0%	10	10	20	Short-term on-the-job training	\$29,818	\$10.19	\$16.41
31-9094	Medical Transcriptionists	1,300	1,690	390	30.0%	40	20	60	Postsecondary vocational training	\$32,196	\$12.86	\$16.79
31-9095	Pharmacy Aides	290	340	50	17.2%	10	10	20	Short-term on-the-job training	\$19,086	\$6.73	\$10.40

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	260	300	40	15.4%	<5	10	10	Short-term on-the-job training	\$19,415	\$8.07	\$9.97
31-9099	Healthcare Support Workers, All Other	1,960	2,420	460	23.5%	50	40	90	Short-term on-the-job training	\$25,973	\$9.83	\$13.82
33-0000	Protective Service Occupations	12,940	14,290	1,350	10.4%	140	370	510		\$36,760	\$9.11	\$21.96
33-1011	First-Line Supervisors/Managers of Correctional Officers	110	120	10	9.1%	<5	<5	<5	Work experience in a related occupation	\$52,218	\$22.14	\$26.59
33-1012	First-Line Supervisors/Managers of Police and Detectives	290	310	20	6.9%	<5	10	10	Work experience in a related occupation	\$68,780	\$26.77	\$36.22
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	180	200	20	11.1%	<5	10	10	Work experience in a related occupation	\$58,694	\$18.47	\$33.09
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	190	200	10	5.3%	<5	10	10	Work experience in a related occupation	\$41,903	\$13.63	\$23.40
33-2011	Fire Fighters	1,790	2,060	270	15.1%	30	50	80	Long-term on-the-job training	\$36,104	\$7.46	\$22.31
33-2021	Fire Inspectors and Investigators	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
33-3011	Bailiffs	50	50	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$23,317	\$8.43	\$12.60
33-3012	Correctional Officers and Jailers	1,030	1,050	20	1.9%	<5	20	20	Moderate-term on-the-job training	\$36,412	\$14.55	\$18.99

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
33-3021	Detectives and Criminal Investigators	370	400	30	8.1%	<5	10	10	Work experience in a related occupation	\$58,410	\$24.17	\$30.04
33-3031	Fish and Game Wardens	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
33-3041	Parking Enforcement Workers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
33-3051	Police and Sheriff's Patrol Officers	2,530	2,700	170	6.7%	20	70	90	Long-term on-the-job training	\$48,630	\$18.08	\$26.03
33-3052	Transit and Railroad Police	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
33-9011	Animal Control Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$22,650	\$6.10	\$13.28
33-9021	Private Detectives and Investigators	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
33-9031	Gaming Surveillance Officers and Gaming Investigators	70	80	10	14.3%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
33-9032	Security Guards	4,630	5,250	620	13.4%	60	100	160	Short-term on-the-job training	\$24,222	\$8.58	\$13.18
33-9091	Crossing Guards	410	450	40	9.8%	<5	10	10	Short-term on-the-job training	\$22,616	\$9.24	\$11.69
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	620	710	90	14.5%	10	40	50	Short-term on-the-job training	\$17,440	\$7.34	\$8.91

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
33-9099	Protective Service Workers, All Other	440	470	30	6.8%	<5	30	30	Short-term on-the-job training	\$32,404	\$11.67	\$17.53
35-0000	Food Preparation and Serving Related Occupations	62,170	71,270	9,100	14.6%	910	2,470	3,380		\$18,160	\$5.97	\$10.11
35-1011	Chefs and Head Cooks	850	990	140	16.5%	10	30	40	Postsecondary vocational training	\$31,267	\$9.94	\$17.58
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	4,140	4,820	680	16.4%	70	100	170	Work experience in a related occupation	\$30,700	\$10.53	\$16.87
35-2011	Cooks, Fast Food	3,020	3,500	480	15.9%	50	90	140	Short-term on-the-job training	\$16,544	\$6.08	\$8.89
35-2012	Cooks, Institution and Cafeteria	2,500	2,630	130	5.2%	10	80	90	Long-term on-the-job training	\$23,475	\$9.11	\$12.38
35-2013	Cooks, Private Household	30	30	0	0.0%	<5	<5	<5	Long-term on-the-job training	*	*	*
35-2014	Cooks, Restaurant	3,270	3,770	500	15.3%	50	100	150	Long-term on-the-job training	\$20,610	\$7.35	\$11.19
35-2015	Cooks, Short Order	1,210	1,310	100	8.3%	10	40	50	Short-term on-the-job training	\$18,167	\$7.16	\$9.52
35-2019	Cooks, All Other	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$20,209	\$7.99	\$10.58
35-2021	Food Preparation Workers	4,250	5,020	770	18.1%	80	150	230	Short-term on-the-job training	\$17,944	\$6.64	\$9.62

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
35-3011	Bartenders	5,410	6,040	630	11.6%	60	210	270	Short-term on-the-job training	\$20,326	\$6.84	\$11.24
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	15,190	17,630	2,440	16.1%	240	660	900	Short-term on-the-job training	\$15,791	\$5.92	\$8.43
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,870	2,170	300	16.0%	30	120	150	Short-term on-the-job training	\$16,074	\$6.03	\$8.58
35-3031	Waiters and Waitresses	11,740	13,500	1,760	15.0%	180	600	780	Short-term on-the-job training	\$15,971	\$5.91	\$8.56
35-3041	Food Servers, Nonrestaurant	1,260	1,340	80	6.3%	10	40	50	Short-term on-the-job training	\$19,132	\$7.31	\$10.14
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	2,300	2,600	300	13.0%	30	80	110	Short-term on-the-job training	\$15,609	\$5.93	\$8.29
35-9021	Dishwashers	3,280	3,780	500	15.2%	50	110	160	Short-term on-the-job training	\$15,203	\$5.88	\$8.02
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,430	1,660	230	16.1%	20	50	70	Short-term on-the-job training	\$16,303	\$5.93	\$8.79
35-9099	Food Preparation and Serving Related Workers, All Other	400	460	60	15.0%	10	10	20	Short-term on-the-job training	\$20,349	\$7.17	\$11.09
37-0000	Building and Grounds Cleaning and Maintenance Occupations	30,870	36,330	5,460	17.7%	550	610	1,160		\$22,425	\$7.29	\$12.53
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	1,240	1,470	230	18.5%	20	30	50	Work experience in a related occupation	\$33,440	\$10.83	\$18.70

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	660	750	90	13.6%	10	10	20	Work experience in a related occupation	\$45,129	\$13.17	\$25.96
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	16,800	19,740	2,940	17.5%	290	320	610	Short-term on-the-job training	\$21,413	\$7.36	\$11.76
37-2012	Maids and Housekeeping Cleaners	6,430	7,400	970	15.1%	100	140	240	Short-term on-the-job training	\$18,041	\$7.04	\$9.49
37-2019	Building Cleaning Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
37-2021	Pest Control Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$28,233	\$9.70	\$15.51
37-3011	Landscaping and Groundskeeping Workers	5,270	6,380	1,110	21.1%	110	120	230	Short-term on-the-job training	\$23,759	\$7.62	\$13.32
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$25,700	\$7.92	\$14.58
37-3013	Tree Trimmers and Pruners	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
37-3019	Grounds Maintenance Workers, All Other	60	80	20	33.3%	<5	<5	<5	Short-term on-the-job training	\$32,443	\$10.90	\$17.95
39-0000	Personal Care and Service Occupations	25,940	32,530	6,590	25.4%	660	580	1,240		\$21,174	\$7.19	\$11.67
39-1011	Gaming Supervisors	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
39-1012	Slot Key Persons	110	130	20	18.2%	<5	<5	<5	Postsecondary vocational training	*	*	*
39-1021	First-Line Supervisors/Managers of Personal Service Workers	1,010	1,270	260	25.7%	30	30	60	Work experience in a related occupation	\$36,880	\$11.83	\$20.68
39-2011	Animal Trainers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$27,357	\$9.57	\$14.94
39-2021	Nonfarm Animal Caretakers	*	*	*	*	10	20	30	Short-term on-the-job training	\$20,827	\$6.64	\$11.70
39-3011	Gaming Dealers	*	*	*	*	10	10	20	Postsecondary vocational training	*	*	*
39-3012	Gaming and Sports Book Writers and Runners	50	60	10	20.0%	<5	<5	<5	Short-term on-the-job training	*	*	*
39-3019	Gaming Service Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
39-3021	Motion Picture Projectionists	70	60	-10	-14.3%	<5	<5	<5	Short-term on-the-job training	\$18,881	\$7.62	\$9.81
39-3031	Ushers, Lobby Attendants, and Ticket Takers	590	620	30	5.1%	<5	30	30	Short-term on-the-job training	\$14,965	\$5.86	\$7.86
39-3091	Amusement and Recreation Attendants	1,590	1,850	260	16.4%	30	50	80	Short-term on-the-job training	\$16,640	\$6.70	\$8.65
39-3092	Costume Attendants	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$23,311	\$9.78	\$11.92

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	100	110	10	10.0%	<5	<5	<5	Short-term on-the-job training	\$19,593	\$7.10	\$10.58
39-3099	Entertainment Attendants and Related Workers, All Other	*	*	*	*	<5	10	10	Moderate-term on-the-job training	*	*	*
39-4011	Embalmers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$48,735	\$12.66	\$28.82
39-4021	Funeral Attendants	160	190	30	18.8%	<5	<5	<5	Short-term on-the-job training	\$22,774	\$9.44	\$11.71
39-5011	Barbers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$22,403	\$8.38	\$11.97
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,100	3,520	420	13.5%	40	60	100	Postsecondary vocational training	\$22,982	\$8.12	\$12.51
39-5091	Makeup Artists, Theatrical and Performance	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
39-5092	Manicurists and Pedicurists	120	150	30	25.0%	<5	<5	<5	Postsecondary vocational training	\$21,999	\$8.51	\$11.61
39-5093	Shampooers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-5094	Skin Care Specialists	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$20,439	\$7.54	\$10.97
39-6011	Baggage Porters and Bellhops	160	170	10	6.3%	<5	<5	<5	Short-term on-the-job training	\$17,196	\$6.07	\$9.37

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39-6012	Concierges	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
39-6021	Tour Guides and Escorts	*	*	*	*	<5	10	10	Moderate-term on-the-job training	\$23,634	\$8.38	\$12.85
39-6022	Travel Guides	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
39-6031	Flight Attendants	*	*	*	*	10	10	20	Long-term on-the-job training	*	*	*
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
39-9011	Child Care Workers	4,790	5,890	1,100	23.0%	110	130	240	Short-term on-the-job training	\$19,719	\$7.00	\$10.72
39-9021	Personal and Home Care Aides	7,800	11,140	3,340	42.8%	330	130	460	Short-term on-the-job training	\$19,139	\$7.72	\$9.94
39-9031	Fitness Trainers and Aerobics Instructors	1,220	1,420	200	16.4%	20	30	50	Postsecondary vocational training	\$22,748	\$7.24	\$12.78
39-9032	Recreation Workers	1,970	2,290	320	16.2%	30	50	80	Bachelor's degree	\$21,237	\$6.71	\$11.96
39-9041	Residential Advisors	280	350	70	25.0%	10	10	20	Moderate-term on-the-job training	\$26,959	\$9.67	\$14.61
39-9099	Personal Care and Service Workers, All Other	260	320	60	23.1%	10	10	20	Short-term on-the-job training	\$24,090	\$8.19	\$13.28

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41-0000	Sales and Related Occupations	76,340	83,770	7,430	9.7%	740	2,480	3,220		\$39,048	\$7.53	\$24.40
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	5,300	5,620	320	6.0%	30	100	130	Work experience in a related occupation	\$40,800	\$11.67	\$23.59
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,820	1,930	110	6.0%	10	30	40	Work experience in a related occupation	\$83,301	\$22.29	\$48.93
41-2011	Cashiers	15,960	15,980	20	0.1%	<5	780	780	Short-term on-the-job training	\$17,070	\$6.58	\$9.02
41-2012	Gaming Change Persons and Booth Cashiers	140	140	0	0.0%	<5	10	10	Short-term on-the-job training	*	*	*
41-2021	Counter and Rental Clerks	2,590	3,110	520	20.1%	50	100	150	Short-term on-the-job training	\$24,418	\$6.62	\$14.30
41-2022	Parts Salespersons	1,270	1,170	-100	-7.9%	<5	40	40	Moderate-term on-the-job training	\$31,361	\$10.08	\$17.58
41-2031	Retail Salespersons	23,010	26,300	3,290	14.3%	330	840	1,170	Short-term on-the-job training	\$23,922	\$7.15	\$13.68
41-3011	Advertising Sales Agents	1,040	1,170	130	12.5%	10	20	30	Moderate-term on-the-job training	\$47,828	\$13.20	\$27.89
41-3021	Insurance Sales Agents	1,950	2,240	290	14.9%	30	50	80	Bachelor's degree	\$80,993	\$16.27	\$50.28
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,700	1,990	290	17.1%	30	20	50	Bachelor's degree	\$81,678	\$15.70	\$51.05

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41-3041	Travel Agents	800	730	-70	-8.8%	<5	20	20	Postsecondary vocational training	\$29,804	\$10.18	\$16.40
41-3099	Sales Representatives, Services, All Other	2,500	3,000	500	20.0%	50	50	100	Moderate-term on-the-job training	\$59,418	\$13.85	\$35.93
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	2,970	3,400	430	14.5%	40	80	120	Moderate-term on-the-job training	\$72,685	\$21.79	\$41.52
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	10,250	11,640	1,390	13.6%	140	270	410	Moderate-term on-the-job training	\$62,800	\$16.75	\$36.91
41-9011	Demonstrators and Product Promoters	760	970	210	27.6%	20	20	40	Moderate-term on-the-job training	\$21,225	\$7.47	\$11.57
41-9012	Models	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
41-9021	Real Estate Brokers	210	230	20	9.5%	<5	<5	<5	Postsecondary vocational training	\$70,005	\$15.63	\$42.67
41-9022	Real Estate Sales Agents	280	330	50	17.9%	10	10	20	Postsecondary vocational training	\$46,661	\$14.30	\$26.50
41-9031	Sales Engineers	600	660	60	10.0%	10	20	30	Bachelor's degree	\$75,994	\$25.56	\$42.02
41-9041	Telemarketers	2,070	1,850	-220	-10.6%	<5	30	30	Short-term on-the-job training	\$28,971	\$9.73	\$16.03
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*

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41-9099	Sales and Related Workers, All Other	970	1,140	170	17.5%	20	20	40	Moderate-term on-the-job training	\$45,362	\$8.40	\$28.52
43-0000	Office and Administrative Support Occupations	148,700	157,120	8,420	5.7%	840	3,370	4,210		\$30,216	\$9.44	\$17.07
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	8,040	8,600	560	7.0%	60	170	230	Work experience in a related occupation	\$46,160	\$14.95	\$25.82
43-2011	Switchboard Operators, Including Answering Service	1,320	1,200	-120	-9.1%	<5	30	30	Short-term on-the-job training	\$22,961	\$8.39	\$12.36
43-2021	Telephone Operators	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
43-2099	Communications Equipment Operators, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
43-3011	Bill and Account Collectors	2,010	2,450	440	21.9%	40	40	80	Short-term on-the-job training	\$28,820	\$10.89	\$15.34
43-3021	Billing and Posting Clerks and Machine Operators	3,480	3,550	70	2.0%	10	60	70	Moderate-term on-the-job training	\$29,072	\$11.39	\$15.27
43-3031	Bookkeeping, Accounting, and Auditing Clerks	13,790	14,710	920	6.7%	90	260	350	Moderate-term on-the-job training	\$31,652	\$10.92	\$17.37
43-3041	Gaming Cage Workers	140	150	10	7.1%	<5	10	10	Short-term on-the-job training	*	*	*
43-3051	Payroll and Timekeeping Clerks	1,360	1,570	210	15.4%	20	40	60	Moderate-term on-the-job training	\$32,750	\$11.57	\$17.83

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-3061	Procurement Clerks	580	560	-20	-3.4%	<5	20	20	Short-term on-the-job training	\$30,893	\$11.75	\$16.41
43-3071	Tellers	4,520	5,080	560	12.4%	60	220	280	Short-term on-the-job training	\$21,042	\$8.23	\$11.06
43-4011	Brokerage Clerks	330	380	50	15.2%	10	<5	10	Moderate-term on-the-job training	\$35,991	\$12.30	\$19.80
43-4021	Correspondence Clerks	70	60	-10	-14.3%	<5	<5	<5	Short-term on-the-job training	\$27,877	\$10.73	\$14.74
43-4031	Court, Municipal, and License Clerks	380	420	40	10.5%	<5	10	10	Short-term on-the-job training	\$34,668	\$13.50	\$18.25
43-4041	Credit Authorizers, Checkers, and Clerks	370	230	-140	-37.8%	<5	10	10	Short-term on-the-job training	\$30,789	\$11.42	\$16.49
43-4051	Customer Service Representatives	15,410	18,560	3,150	20.4%	320	230	550	Moderate-term on-the-job training	\$32,743	\$10.70	\$18.26
43-4061	Eligibility Interviewers, Government Programs	200	170	-30	-15.0%	<5	10	10	Moderate-term on-the-job training	\$36,040	\$12.92	\$19.53
43-4071	File Clerks	1,480	940	-540	-36.5%	<5	40	40	Short-term on-the-job training	\$23,533	\$8.60	\$12.67
43-4081	Hotel, Motel, and Resort Desk Clerks	910	1,060	150	16.5%	20	40	60	Short-term on-the-job training	\$17,874	\$7.62	\$9.08
43-4111	Interviewers, Except Eligibility and Loan	1,160	1,490	330	28.4%	30	30	60	Short-term on-the-job training	\$25,713	\$8.95	\$14.07

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-4121	Library Assistants, Clerical	440	460	20	4.5%	<5	20	20	Short-term on-the-job training	\$23,919	\$7.67	\$13.41
43-4131	Loan Interviewers and Clerks	1,630	1,640	10	0.6%	<5	20	20	Short-term on-the-job training	\$31,119	\$10.82	\$17.03
43-4141	New Accounts Clerks	540	580	40	7.4%	<5	10	10	Work experience in a related occupation	\$27,599	\$11.71	\$14.05
43-4151	Order Clerks	2,170	1,710	-460	-21.2%	<5	50	50	Short-term on-the-job training	\$28,881	\$9.93	\$15.86
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	1,130	1,320	190	16.8%	20	20	40	Short-term on-the-job training	\$34,004	\$12.78	\$18.13
43-4171	Receptionists and Information Clerks	8,080	9,600	1,520	18.8%	150	200	350	Short-term on-the-job training	\$24,027	\$8.64	\$13.01
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	460	470	10	2.2%	<5	10	10	Short-term on-the-job training	\$27,742	\$9.64	\$15.19
43-4199	Information and Record Clerks, All Other	1,870	1,840	-30	-1.6%	<5	30	30	Short-term on-the-job training	\$33,688	\$11.17	\$18.71
43-5011	Cargo and Freight Agents	400	380	-20	-5.0%	<5	10	10	Moderate-term on-the-job training	\$29,115	\$9.35	\$16.32
43-5021	Couriers and Messengers	870	800	-70	-8.0%	<5	20	20	Short-term on-the-job training	\$21,119	\$6.57	\$11.95
43-5031	Police, Fire, and Ambulance Dispatchers	350	370	20	5.7%	<5	10	10	Moderate-term on-the-job training	\$35,775	\$15.05	\$18.27

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-5032	Dispatchers, Except Police, Fire, and Ambulance	990	1,090	100	10.1%	10	20	30	Moderate-term on-the-job training	\$34,358	\$11.16	\$19.20
43-5041	Meter Readers, Utilities	220	110	-110	-50.0%	<5	10	10	Short-term on-the-job training	\$28,926	\$9.86	\$15.93
43-5051	Postal Service Clerks	440	440	0	0.0%	<5	10	10	Short-term on-the-job training	\$46,790	\$18.94	\$24.27
43-5052	Postal Service Mail Carriers	2,500	2,490	-10	-0.4%	<5	80	80	Short-term on-the-job training	\$45,513	\$17.71	\$23.97
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,380	1,370	-10	-0.7%	<5	40	40	Short-term on-the-job training	\$42,968	\$16.68	\$22.64
43-5061	Production, Planning, and Expediting Clerks	2,130	2,280	150	7.0%	20	50	70	Short-term on-the-job training	\$41,361	\$13.88	\$22.89
43-5071	Shipping, Receiving, and Traffic Clerks	5,090	5,260	170	3.3%	20	100	120	Short-term on-the-job training	\$27,461	\$9.31	\$15.15
43-5081	Stock Clerks and Order Fillers	9,050	8,300	-750	-8.3%	<5	340	340	Short-term on-the-job training	\$21,756	\$7.30	\$12.04
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	650	580	-70	-10.8%	<5	20	20	Short-term on-the-job training	\$25,235	\$8.91	\$13.75
43-6011	Executive Secretaries and Administrative Assistants	10,190	11,540	1,350	13.2%	140	200	340	Moderate-term on-the-job training	\$36,462	\$13.13	\$19.73
43-6012	Legal Secretaries	1,770	1,990	220	12.4%	20	30	50	Postsecondary vocational training	\$34,959	\$12.62	\$18.90

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-6013	Medical Secretaries	1,560	1,810	250	16.0%	30	30	60	Postsecondary vocational training	\$29,320	\$10.88	\$15.70
43-6014	Secretaries, Except Legal, Medical, and Executive	12,890	12,470	-420	-3.3%	<5	250	250	Moderate-term on-the-job training	\$28,968	\$10.95	\$15.42
43-9011	Computer Operators	890	600	-290	-32.6%	<5	20	20	Moderate-term on-the-job training	\$36,939	\$12.42	\$20.43
43-9021	Data Entry Keyers	2,490	2,570	80	3.2%	10	60	70	Moderate-term on-the-job training	\$25,737	\$9.30	\$13.91
43-9022	Word Processors and Typists	790	660	-130	-16.5%	<5	20	20	Moderate-term on-the-job training	\$30,432	\$11.39	\$16.25
43-9031	Desktop Publishers	290	370	80	27.6%	10	10	20	Postsecondary vocational training	\$33,683	\$8.47	\$20.06
43-9041	Insurance Claims and Policy Processing Clerks	2,330	2,490	160	6.9%	20	40	60	Moderate-term on-the-job training	\$31,163	\$11.68	\$16.63
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,270	810	-460	-36.2%	<5	40	40	Short-term on-the-job training	\$23,984	\$9.30	\$12.65
43-9061	Office Clerks, General	15,460	16,750	1,290	8.3%	130	340	470	Short-term on-the-job training	\$24,159	\$8.16	\$13.34
43-9071	Office Machine Operators, Except Computer	650	510	-140	-21.5%	<5	20	20	Short-term on-the-job training	\$26,259	\$8.85	\$14.51
43-9081	Proofreaders and Copy Markers	120	120	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$29,318	\$10.62	\$15.83

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
43-9111	Statistical Assistants	60	60	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$38,107	\$14.64	\$20.16
43-9199	Office and Administrative Support Workers, All Other	1,890	2,010	120	6.3%	10	50	60	Short-term on-the-job training	\$23,286	\$6.44	\$13.57
45-0000	Farming, Fishing, and Forestry Occupations	640	760	120	18.8%	10	20	30		\$25,028	\$7.33	\$14.38
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
45-2011	Agricultural Inspectors	40	40	0	0.0%	<5	<5	<5	Work experience in a related occupation	\$36,505	\$12.49	\$20.08
45-2021	Animal Breeders	20	20	0	0.0%	<5	<5	<5	Associate degree	*	*	*
45-2041	Graders and Sorters, Agricultural Products	*	*	*	*	<5	<5	<5	Work experience in a related occupation	*	*	*
45-2091	Agricultural Equipment Operators	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$18,478	\$7.26	\$9.70
45-2093	Farmworkers, Farm and Ranch Animals	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
45-2099	Agricultural Workers, All Other	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*

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45-3011	Fishers and Related Fishing Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4011	Forest and Conservation Workers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4022	Logging Equipment Operators	60	70	10	16.7%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
45-4023	Log Graders and Scalers	0	0	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-0000	Construction and Extraction Occupations	29,300	34,600	5,300	18.1%	530	580	1,110		\$46,252	\$14.26	\$26.22
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	2,020	2,420	400	19.8%	40	30	70	Work experience in a related occupation	\$65,778	\$20.76	\$37.06
47-2011	Boilermakers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2021	Brickmasons and Blockmasons	710	870	160	22.5%	20	10	30	Long-term on-the-job training	\$54,542	\$21.07	\$28.80
47-2022	Stonemasons	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2031	Carpenters	5,320	6,430	1,110	20.9%	110	90	200	Long-term on-the-job training	\$45,120	\$15.03	\$25.02
47-2041	Carpet Installers	320	360	40	12.5%	<5	10	10	Moderate-term on-the-job training	\$43,873	\$12.89	\$25.20

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47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	160	190	30	18.8%	<5	<5	<5	Moderate-term on-the-job training	\$44,420	\$14.66	\$24.70
47-2043	Floor Sanders and Finishers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$32,419	\$11.29	\$17.73
47-2044	Tile and Marble Setters	160	220	60	37.5%	10	<5	10	Long-term on-the-job training	\$45,154	\$14.70	\$25.21
47-2051	Cement Masons and Concrete Finishers	1,120	1,410	290	25.9%	30	20	50	Moderate-term on-the-job training	\$41,599	\$14.38	\$22.81
47-2053	Terrazzo Workers and Finishers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
47-2061	Construction Laborers	3,150	3,470	320	10.2%	30	40	70	Moderate-term on-the-job training	\$36,778	\$10.74	\$21.15
47-2071	Paving, Surfacing, and Tamping Equipment Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$43,437	\$17.69	\$22.48
47-2072	Pile-Driver Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-2073	Operating Engineers and Other Construction Equipment Operators	1,550	1,780	230	14.8%	20	40	60	Moderate-term on-the-job training	\$47,383	\$18.24	\$25.05
47-2081	Drywall and Ceiling Tile Installers	460	510	50	10.9%	10	10	20	Moderate-term on-the-job training	\$50,564	\$19.02	\$26.95
47-2082	Tapers	220	250	30	13.6%	<5	10	10	Moderate-term on-the-job training	\$48,073	\$17.52	\$25.91

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47-2111	Electricians	3,210	3,760	550	17.1%	60	60	120	Long-term on-the-job training	\$49,734	\$18.01	\$26.86
47-2121	Glaziers	170	200	30	17.6%	<5	<5	<5	Long-term on-the-job training	\$45,593	\$14.19	\$25.79
47-2131	Insulation Workers, Floor, Ceiling, and Wall	240	260	20	8.3%	<5	10	10	Moderate-term on-the-job training	\$42,546	\$14.19	\$23.59
47-2132	Insulation Workers, Mechanical	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$54,520	\$17.79	\$30.42
47-2141	Painters, Construction and Maintenance	1,290	1,570	280	21.7%	30	20	50	Moderate-term on-the-job training	\$34,912	\$9.48	\$20.43
47-2142	Paperhangers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-2151	Pipelayers	120	130	10	8.3%	<5	<5	<5	Moderate-term on-the-job training	\$46,422	\$16.47	\$25.24
47-2152	Plumbers, Pipefitters, and Steamfitters	2,240	2,720	480	21.4%	50	50	100	Long-term on-the-job training	\$59,285	\$22.89	\$31.31
47-2161	Plasterers and Stucco Masons	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$47,255	\$17.69	\$25.23
47-2171	Reinforcing Iron and Rebar Workers	110	130	20	18.2%	<5	<5	<5	Long-term on-the-job training	\$45,024	\$17.71	\$23.62
47-2181	Roofers	740	930	190	25.7%	20	20	40	Moderate-term on-the-job training	\$37,692	\$11.92	\$21.22

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47-2211	Sheet Metal Workers	1,150	1,370	220	19.1%	20	30	50	Long-term on-the-job training	\$48,853	\$15.75	\$27.36
47-2221	Structural Iron and Steel Workers	410	500	90	22.0%	10	10	20	Long-term on-the-job training	\$48,651	\$18.66	\$25.75
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	*	*	*	*	10	10	20	Short-term on-the-job training	\$25,500	\$10.08	\$13.35
47-3012	Helpers--Carpenters	*	*	*	*	10	20	30	Short-term on-the-job training	\$25,451	\$9.65	\$13.53
47-3013	Helpers--Electricians	270	300	30	11.1%	<5	10	10	Short-term on-the-job training	\$22,903	\$9.13	\$11.95
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$18,146	\$7.52	\$9.33
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	200	240	40	20.0%	<5	10	10	Short-term on-the-job training	\$29,208	\$11.24	\$15.44
47-3016	Helpers--Roofers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$22,887	\$9.77	\$11.62
47-3019	Helpers, Construction Trades, All Other	60	60	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$22,932	\$8.56	\$12.26
47-4011	Construction and Building Inspectors	310	360	50	16.1%	10	10	20	Work experience in a related occupation	\$45,860	\$15.79	\$25.18
47-4021	Elevator Installers and Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*

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47-4031	Fence Erectors	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-4041	Hazardous Materials Removal Workers	130	160	30	23.1%	<5	<5	<5	Moderate-term on-the-job training	\$46,194	\$13.55	\$26.54
47-4051	Highway Maintenance Workers	1,180	1,340	160	13.6%	20	20	40	Moderate-term on-the-job training	\$39,256	\$15.34	\$20.64
47-4061	Rail-Track Laying and Maintenance Equipment Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	*	*	*	*	<5	10	10	Moderate-term on-the-job training	\$35,213	\$13.61	\$18.59
47-4091	Segmental Pavers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-4099	Construction and Related Workers, All Other	220	230	10	4.5%	<5	<5	<5	Moderate-term on-the-job training	\$35,581	\$11.98	\$19.67
47-5012	Rotary Drill Operators, Oil and Gas	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5021	Earth Drillers, Except Oil and Gas	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$37,102	\$15.20	\$19.16
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5041	Continuous Mining Machine Operators	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
47-5042	Mine Cutting and Channeling Machine Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5051	Rock Splitters, Quarry	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5071	Roustabouts, Oil and Gas	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
47-5081	Helpers--Extraction Workers	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
47-5099	Extraction Workers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-0000	Installation, Maintenance, and Repair Occupations	29,890	33,220	3,330	11.1%	330	680	1,010		\$40,206	\$12.29	\$22.85
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2,500	2,760	260	10.4%	30	60	90	Work experience in a related occupation	\$61,145	\$20.20	\$34.00
49-2011	Computer, Automated Teller, and Office Machine Repairers	680	720	40	5.9%	<5	10	10	Postsecondary vocational training	\$35,587	\$12.61	\$19.36
49-2021	Radio Mechanics	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	990	910	-80	-8.1%	<5	20	20	Postsecondary vocational training	\$49,568	\$19.33	\$26.08
49-2091	Avionics Technicians	70	70	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$46,881	\$18.11	\$24.75

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
49-2092	Electric Motor, Power Tool, and Related Repairers	180	180	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$36,244	\$13.57	\$19.35
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	360	400	40	11.1%	<5	10	10	Postsecondary vocational training	\$47,197	\$16.97	\$25.55
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	60	60	0	0.0%	<5	<5	<5	Postsecondary vocational training	\$59,126	\$23.31	\$30.99
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	90	100	10	11.1%	<5	<5	<5	Postsecondary vocational training	\$32,642	\$12.22	\$17.43
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	250	280	30	12.0%	<5	10	10	Postsecondary vocational training	\$27,428	\$12.45	\$13.55
49-2098	Security and Fire Alarm Systems Installers	160	190	30	18.8%	<5	<5	<5	Postsecondary vocational training	\$35,327	\$11.31	\$19.82
49-3011	Aircraft Mechanics and Service Technicians	570	610	40	7.0%	<5	10	10	Postsecondary vocational training	\$51,930	\$18.31	\$28.29
49-3021	Automotive Body and Related Repairers	980	1,040	60	6.1%	10	20	30	Long-term on-the-job training	\$34,604	\$11.22	\$19.35
49-3022	Automotive Glass Installers and Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-3023	Automotive Service Technicians and Mechanics	3,900	4,440	540	13.8%	50	100	150	Postsecondary vocational training	\$37,206	\$11.25	\$21.21

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,440	1,680	240	16.7%	20	40	60	Postsecondary vocational training	\$39,616	\$13.74	\$21.70
49-3041	Farm Equipment Mechanics	*	*	*	*	<5	10	10	Postsecondary vocational training	\$31,098	\$11.22	\$16.81
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	590	660	70	11.9%	10	10	20	Postsecondary vocational training	\$43,682	\$18.11	\$22.45
49-3043	Rail Car Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-3051	Motorboat Mechanics	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$28,464	\$7.63	\$16.71
49-3052	Motorcycle Mechanics	90	100	10	11.1%	<5	<5	<5	Long-term on-the-job training	\$32,797	\$10.90	\$18.20
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	260	290	30	11.5%	<5	10	10	Moderate-term on-the-job training	\$26,984	\$9.04	\$14.94
49-3091	Bicycle Repairers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-3092	Recreational Vehicle Service Technicians	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-3093	Tire Repairers and Changers	340	350	10	2.9%	<5	20	20	Short-term on-the-job training	\$21,112	\$7.73	\$11.36
49-9011	Mechanical Door Repairers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$57,347	\$17.86	\$32.42

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$50,806	\$22.16	\$25.56
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,430	1,860	430	30.1%	40	20	60	Long-term on-the-job training	\$37,565	\$11.21	\$21.48
49-9031	Home Appliance Repairers	270	270	0	0.0%	<5	10	10	Long-term on-the-job training	\$33,084	\$14.03	\$16.84
49-9041	Industrial Machinery Mechanics	1,680	1,750	70	4.2%	10	30	40	Long-term on-the-job training	\$44,926	\$17.26	\$23.77
49-9042	Maintenance and Repair Workers, General	7,360	8,280	920	12.5%	90	140	230	Long-term on-the-job training	\$36,509	\$12.30	\$20.18
49-9043	Maintenance Workers, Machinery	560	590	30	5.4%	<5	10	10	Short-term on-the-job training	\$36,080	\$12.04	\$20.00
49-9044	Millwrights	390	440	50	12.8%	10	10	20	Long-term on-the-job training	\$49,285	\$18.63	\$26.23
49-9045	Refractory Materials Repairers, Except Brickmasons	30	30	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9051	Electrical Power-Line Installers and Repairers	450	490	40	8.9%	<5	10	10	Long-term on-the-job training	\$58,592	\$23.64	\$30.44
49-9052	Telecommunications Line Installers and Repairers	810	940	130	16.0%	10	20	30	Long-term on-the-job training	\$35,652	\$12.15	\$19.64
49-9061	Camera and Photographic Equipment Repairers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
49-9062	Medical Equipment Repairers	180	210	30	16.7%	<5	10	10	Associate degree	\$47,940	\$17.19	\$25.98
49-9063	Musical Instrument Repairers and Tuners	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$22,292	\$9.43	\$11.36
49-9064	Watch Repairers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
49-9069	Precision Instrument and Equipment Repairers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	280	280	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$35,169	\$14.22	\$18.25
49-9092	Commercial Divers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9093	Fabric Menders, Except Garment	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9094	Locksmiths and Safe Repairers	80	90	10	12.5%	<5	<5	<5	Moderate-term on-the-job training	\$35,884	\$12.35	\$19.70
49-9095	Manufactured Building and Mobile Home Installers	60	70	10	16.7%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
49-9096	Riggers	30	40	10	33.3%	<5	<5	<5	Short-term on-the-job training	*	*	*
49-9098	Helpers--Installation, Maintenance, and Repair Workers	740	840	100	13.5%	10	30	40	Short-term on-the-job training	\$25,370	\$8.18	\$14.20

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
49-9099	Installation, Maintenance, and Repair Workers, All Other	740	840	100	13.5%	10	20	30	Moderate-term on-the-job training	\$34,463	\$11.31	\$19.20
51-0000	Production Occupations	98,440	102,140	3,700	3.8%	370	2,350	2,720		\$31,930	\$9.59	\$18.23
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	6,120	6,390	270	4.4%	30	130	160	Work experience in a related occupation	\$53,422	\$17.31	\$29.87
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	10	10	0	0.0%	<5	<5	<5	Long-term on-the-job training	*	*	*
51-2021	Coil Winders, Tapers, and Finishers	560	400	-160	-28.6%	<5	10	10	Short-term on-the-job training	\$25,972	\$9.37	\$14.05
51-2022	Electrical and Electronic Equipment Assemblers	2,770	2,580	-190	-6.9%	<5	70	70	Short-term on-the-job training	\$32,809	\$10.13	\$18.60
51-2023	Electromechanical Equipment Assemblers	530	470	-60	-11.3%	<5	10	10	Short-term on-the-job training	\$29,475	\$10.93	\$15.79
51-2031	Engine and Other Machine Assemblers	670	640	-30	-4.5%	<5	20	20	Short-term on-the-job training	\$39,965	\$12.75	\$22.44
51-2041	Structural Metal Fabricators and Fitters	890	920	30	3.4%	<5	20	20	Moderate-term on-the-job training	\$36,371	\$14.55	\$18.96
51-2091	Fiberglass Laminators and Fabricators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-2092	Team Assemblers	13,460	14,700	1,240	9.2%	120	350	470	Moderate-term on-the-job training	\$26,770	\$9.26	\$14.67

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51-2093	Timing Device Assemblers, Adjusters, and Calibrators	0	0	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-2099	Assemblers and Fabricators, All Other	1,650	1,700	50	3.0%	10	40	50	Moderate-term on-the-job training	\$26,051	\$8.38	\$14.60
51-3011	Bakers	1,040	1,200	160	15.4%	20	20	40	Long-term on-the-job training	\$24,469	\$8.71	\$13.29
51-3021	Butchers and Meat Cutters	900	960	60	6.7%	10	20	30	Long-term on-the-job training	\$32,873	\$10.44	\$18.49
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	*	*	*	*	10	10	20	Short-term on-the-job training	\$23,149	\$8.69	\$12.35
51-3023	Slaughterers and Meat Packers	*	*	*	*	20	20	40	Moderate-term on-the-job training	\$21,622	\$9.59	\$10.80
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	140	150	10	7.1%	<5	<5	<5	Short-term on-the-job training	\$20,446	\$7.42	\$11.03
51-3092	Food Batchmakers	640	690	50	7.8%	10	20	30	Short-term on-the-job training	\$27,777	\$9.17	\$15.45
51-3093	Food Cooking Machine Operators and Tenders	270	280	10	3.7%	<5	10	10	Short-term on-the-job training	\$26,165	\$8.34	\$14.70
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	2,570	2,600	30	1.2%	<5	40	40	Moderate-term on-the-job training	\$35,496	\$11.26	\$19.97
51-4012	Numerical Tool and Process Control Programmers	220	220	0	0.0%	<5	<5	<5	Long-term on-the-job training	\$46,875	\$17.45	\$25.08

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51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	600	540	-60	-10.0%	<5	20	20	Moderate-term on-the-job training	\$28,640	\$9.39	\$15.96
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	620	700	80	12.9%	10	10	20	Moderate-term on-the-job training	*	*	*
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	180	200	20	11.1%	<5	<5	<5	Moderate-term on-the-job training	\$36,946	\$13.35	\$19.97
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	3,870	3,340	-530	-13.7%	<5	90	90	Moderate-term on-the-job training	\$28,418	\$9.58	\$15.70
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	800	790	-10	-1.3%	<5	20	20	Moderate-term on-the-job training	\$33,384	\$9.73	\$19.21
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,830	1,740	-90	-4.9%	<5	40	40	Moderate-term on-the-job training	\$32,398	\$10.57	\$18.08
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,100	1,020	-80	-7.3%	<5	20	20	Moderate-term on-the-job training	\$34,079	\$11.98	\$18.58
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	400	390	-10	-2.5%	<5	10	10	Moderate-term on-the-job training	\$32,859	\$11.28	\$18.06
51-4041	Machinists	4,820	5,260	440	9.1%	40	110	150	Long-term on-the-job training	\$37,619	\$13.31	\$20.47
51-4051	Metal-Refining Furnace Operators and Tenders	190	190	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$36,580	\$12.29	\$20.23
51-4052	Pourers and Casters, Metal	300	290	-10	-3.3%	<5	10	10	Moderate-term on-the-job training	\$29,205	\$10.97	\$15.58

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51-4061	Model Makers, Metal and Plastic	130	120	-10	-7.7%	<5	<5	<5	Moderate-term on-the-job training	\$48,638	\$16.94	\$26.61
51-4062	Patternmakers, Metal and Plastic	*	*	*	*	<5	10	10	Moderate-term on-the-job training	\$40,740	\$13.95	\$22.40
51-4071	Foundry Mold and Coremakers	440	430	-10	-2.3%	<5	10	10	Moderate-term on-the-job training	\$30,104	\$9.33	\$17.04
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	2,060	1,970	-90	-4.4%	<5	50	50	Moderate-term on-the-job training	\$28,228	\$9.95	\$15.38
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,150	1,160	10	0.9%	<5	30	30	Moderate-term on-the-job training	\$35,947	\$12.38	\$19.73
51-4111	Tool and Die Makers	1,670	1,620	-50	-3.0%	<5	40	40	Long-term on-the-job training	\$46,300	\$17.51	\$24.64
51-4121	Welders, Cutters, Solderers, and Brazers	3,120	3,280	160	5.1%	20	90	110	Postsecondary vocational training	\$34,385	\$12.64	\$18.48
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	750	740	-10	-1.3%	<5	20	20	Moderate-term on-the-job training	\$29,708	\$10.15	\$16.35
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	360	370	10	2.8%	<5	10	10	Moderate-term on-the-job training	\$28,033	\$10.04	\$15.19
51-4192	Lay-Out Workers, Metal and Plastic	40	40	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$38,468	\$15.72	\$19.88
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	470	480	10	2.1%	<5	10	10	Moderate-term on-the-job training	\$25,933	\$9.29	\$14.06

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51-4194	Tool Grinders, Filers, and Sharpeners	280	250	-30	-10.7%	<5	10	10	Moderate-term on-the-job training	\$36,788	\$14.20	\$19.43
51-4199	Metal Workers and Plastic Workers, All Other	*	*	*	*	<5	10	10	Moderate-term on-the-job training	*	*	*
51-5011	Bindery Workers	2,250	2,570	320	14.2%	30	60	90	Moderate-term on-the-job training	\$26,692	\$8.51	\$14.99
51-5012	Bookbinders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$27,422	\$9.65	\$14.95
51-5021	Job Printers	690	750	60	8.7%	10	20	30	Long-term on-the-job training	\$39,152	\$14.19	\$21.14
51-5022	Prepress Technicians and Workers	1,000	930	-70	-7.0%	<5	20	20	Postsecondary vocational training	\$36,401	\$12.29	\$20.11
51-5023	Printing Machine Operators	2,620	2,780	160	6.1%	20	60	80	Moderate-term on-the-job training	\$35,618	\$11.20	\$20.09
51-6011	Laundry and Dry-Cleaning Workers	1,190	1,280	90	7.6%	10	30	40	Moderate-term on-the-job training	\$18,874	\$6.67	\$10.27
51-6021	Pressers, Textile, Garment, and Related Materials	320	340	20	6.3%	<5	10	10	Short-term on-the-job training	\$18,836	\$7.44	\$9.86
51-6031	Sewing Machine Operators	1,010	940	-70	-6.9%	<5	10	10	Moderate-term on-the-job training	\$20,989	\$7.85	\$11.21
51-6041	Shoe and Leather Workers and Repairers	100	80	-20	-20.0%	<5	<5	<5	Long-term on-the-job training	\$21,963	\$8.24	\$11.72

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SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-6042	Shoe Machine Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6051	Sewers, Hand	*	*	*	*	<5	<5	<5	Short-term on-the-job training	\$18,865	\$7.15	\$10.03
51-6052	Tailors, Dressmakers, and Custom Sewers	*	*	*	*	<5	10	10	Work experience in a related occupation	\$24,371	\$8.02	\$13.57
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	90	70	-20	-22.2%	<5	<5	<5	Moderate-term on-the-job training	\$24,217	\$8.95	\$12.99
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$22,035	\$9.67	\$11.05
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	90	50	-40	-44.4%	<5	<5	<5	Long-term on-the-job training	\$24,346	\$9.18	\$12.97
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-6092	Fabric and Apparel Patternmakers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$23,778	\$9.93	\$12.18
51-6093	Upholsterers	80	70	-10	-12.5%	<5	<5	<5	Long-term on-the-job training	\$29,429	\$10.63	\$15.91
51-6099	Textile, Apparel, and Furnishings Workers, All Other	*	*	*	*	<5	10	10	Short-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-7011	Cabinetmakers and Bench Carpenters	320	320	0	0.0%	<5	10	10	Long-term on-the-job training	\$33,717	\$11.81	\$18.41
51-7021	Furniture Finishers	60	50	-10	-16.7%	<5	<5	<5	Long-term on-the-job training	\$30,186	\$10.57	\$16.48
51-7031	Model Makers, Wood	*	*	*	*	<5	<5	<5	Long-term on-the-job training	\$32,197	\$11.60	\$17.42
51-7032	Patternmakers, Wood	20	10	-10	-50.0%	<5	<5	<5	Long-term on-the-job training	\$35,948	\$12.18	\$19.84
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	320	290	-30	-9.4%	<5	10	10	Moderate-term on-the-job training	\$28,584	\$9.52	\$15.86
51-7099	Woodworkers, All Other	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
51-8011	Nuclear Power Reactor Operators	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8012	Power Distributors and Dispatchers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8013	Power Plant Operators	170	180	10	5.9%	<5	10	10	Long-term on-the-job training	\$55,254	\$18.69	\$30.50
51-8021	Stationary Engineers and Boiler Operators	150	160	10	6.7%	<5	<5	<5	Long-term on-the-job training	\$40,226	\$16.01	\$21.00

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-8031	Water and Liquid Waste Treatment Plant and System Operators	550	590	40	7.3%	<5	20	20	Long-term on-the-job training	\$42,409	\$14.35	\$23.41
51-8091	Chemical Plant and System Operators	340	350	10	2.9%	<5	10	10	Long-term on-the-job training	\$36,226	\$12.09	\$20.08
51-8092	Gas Plant Operators	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-8099	Plant and System Operators, All Other	30	40	10	33.3%	<5	<5	<5	Long-term on-the-job training	*	*	*
51-9011	Chemical Equipment Operators and Tenders	310	310	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$36,293	\$13.94	\$19.20
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	370	390	20	5.4%	<5	10	10	Moderate-term on-the-job training	\$37,390	\$14.43	\$19.75
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	280	280	0	0.0%	<5	10	10	Moderate-term on-the-job training	\$29,867	\$9.05	\$17.01
51-9022	Grinding and Polishing Workers, Hand	450	400	-50	-11.1%	<5	10	10	Moderate-term on-the-job training	\$25,834	\$9.58	\$13.84
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	790	840	50	6.3%	10	20	30	Moderate-term on-the-job training	\$34,324	\$11.42	\$19.04
51-9031	Cutters and Trimmers, Hand	100	110	10	10.0%	<5	<5	<5	Short-term on-the-job training	\$25,247	\$8.27	\$14.07

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	1,040	1,090	50	4.8%	10	20	30	Moderate-term on-the-job training	\$33,519	\$10.92	\$18.71
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	470	480	10	2.1%	<5	10	10	Moderate-term on-the-job training	\$23,059	\$5.98	\$13.64
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	110	110	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$29,333	\$8.40	\$16.95
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	7,450	8,510	1,060	14.2%	110	170	280	Moderate-term on-the-job training	\$27,785	\$7.92	\$16.08
51-9071	Jewelers and Precious Stone and Metal Workers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	\$40,353	\$14.25	\$21.97
51-9081	Dental Laboratory Technicians	*	*	*	*	<5	10	10	Long-term on-the-job training	\$35,318	\$11.82	\$19.56
51-9082	Medical Appliance Technicians	40	60	20	50.0%	<5	<5	<5	Long-term on-the-job training	\$34,813	\$10.89	\$19.66
51-9083	Ophthalmic Laboratory Technicians	200	210	10	5.0%	<5	<5	<5	Moderate-term on-the-job training	\$26,246	\$9.15	\$14.35
51-9111	Packaging and Filling Machine Operators and Tenders	3,810	3,970	160	4.2%	20	80	100	Short-term on-the-job training	\$25,164	\$8.03	\$14.13
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,240	1,270	30	2.4%	<5	30	30	Moderate-term on-the-job training	\$33,313	\$11.20	\$18.42
51-9122	Painters, Transportation Equipment	250	290	40	16.0%	<5	10	10	Long-term on-the-job training	\$41,282	\$13.52	\$23.01

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-9123	Painting, Coating, and Decorating Workers	210	220	10	4.8%	<5	10	10	Short-term on-the-job training	\$23,568	\$9.14	\$12.43
51-9131	Photographic Process Workers	*	*	*	*	<5	10	10	Moderate-term on-the-job training	*	*	*
51-9132	Photographic Processing Machine Operators	440	290	-150	-34.1%	<5	10	10	Short-term on-the-job training	\$20,249	\$7.70	\$10.75
51-9141	Semiconductor Processors	*	*	*	*	<5	<5	<5	Associate degree	*	*	*
51-9191	Cementing and Gluing Machine Operators and Tenders	70	70	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$32,822	\$12.41	\$17.47
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	80	80	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	\$29,678	\$9.42	\$16.69
51-9193	Cooling and Freezing Equipment Operators and Tenders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$32,779	\$11.34	\$17.97
51-9194	Etchers and Engravers	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	200	190	-10	-5.0%	<5	10	10	Moderate-term on-the-job training	\$35,527	\$11.20	\$20.02
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,170	1,230	60	5.1%	10	30	40	Moderate-term on-the-job training	\$32,633	\$11.79	\$17.64
51-9197	Tire Builders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
51-9198	Helpers--Production Workers	3,920	4,400	480	12.2%	50	110	160	Short-term on-the-job training	\$22,693	\$8.04	\$12.35
51-9199	Production Workers, All Other	2,310	2,390	80	3.5%	10	60	70	Moderate-term on-the-job training	\$27,775	\$8.78	\$15.64
53-0000	Transportation and Material Moving Occupations	59,120	66,130	7,010	11.9%	700	1,300	2,000		\$29,574	\$8.08	\$17.29
53-1011	Aircraft Cargo Handling Supervisors	*	*	*	*	<5	<5	<5	Work experience in a related occupation	\$49,071	\$12.99	\$28.89
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	1,070	1,150	80	7.5%	10	30	40	Work experience in a related occupation	\$45,950	\$15.30	\$25.49
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	1,290	1,530	240	18.6%	20	30	50	Work experience in a related occupation	\$59,111	\$16.48	\$34.39
53-2011	Airline Pilots, Copilots, and Flight Engineers	*	*	*	*	10	20	30	Bachelor's degree	*	*	*
53-2012	Commercial Pilots	*	*	*	*	10	10	20	Postsecondary vocational training	*	*	*
53-2021	Air Traffic Controllers	*	*	*	*	<5	<5	<5	Bachelor's degree	*	*	*
53-2022	Airfield Operations Specialists	*	*	*	*	<5	<5	<5	Long-term on-the-job training	*	*	*
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$21,235	\$7.67	\$11.48

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
53-3021	Bus Drivers, Transit and Intercity	1,350	1,870	520	38.5%	50	30	80	Moderate-term on-the-job training	\$38,854	\$16.77	\$19.64
53-3022	Bus Drivers, School	2,850	3,390	540	18.9%	50	60	110	Short-term on-the-job training	\$23,156	\$9.38	\$12.01
53-3031	Driver/Sales Workers	1,860	2,120	260	14.0%	30	30	60	Short-term on-the-job training	\$26,824	\$6.47	\$16.11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	10,550	12,040	1,490	14.1%	150	170	320	Moderate-term on-the-job training	\$37,823	\$13.70	\$20.43
53-3033	Truck Drivers, Light or Delivery Services	6,890	7,950	1,060	15.4%	110	60	170	Short-term on-the-job training	\$25,550	\$7.50	\$14.67
53-3041	Taxi Drivers and Chauffeurs	1,050	1,330	280	26.7%	30	10	40	Short-term on-the-job training	\$20,848	\$8.10	\$10.98
53-3099	Motor Vehicle Operators, All Other	450	530	80	17.8%	10	10	20	Short-term on-the-job training	\$17,461	\$6.28	\$9.45
53-4099	Rail Transportation Workers, All Other	10	0	-10	-100.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-5011	Sailors and Marine Oilers	40	40	0	0.0%	<5	<5	<5	Short-term on-the-job training	\$28,560	\$7.99	\$16.60
53-5021	Captains, Mates, and Pilots of Water Vessels	40	50	10	25.0%	<5	<5	<5	Work experience in a related occupation	\$40,511	\$10.43	\$24.00
53-5022	Motorboat Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
53-5031	Ship Engineers	*	*	*	*	<5	<5	<5	Postsecondary vocational training	*	*	*
53-6011	Bridge and Lock Tenders	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-6021	Parking Lot Attendants	410	350	-60	-14.6%	<5	10	10	Short-term on-the-job training	\$17,741	\$7.35	\$9.12
53-6031	Service Station Attendants	290	340	50	17.2%	10	10	20	Short-term on-the-job training	\$20,759	\$9.18	\$10.38
53-6041	Traffic Technicians	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-6051	Transportation Inspectors	80	90	10	12.5%	<5	<5	<5	Work experience in a related occupation	\$80,748	\$30.31	\$43.08
53-6099	Transportation Workers, All Other	*	*	*	*	<5	10	10	Short-term on-the-job training	\$16,525	\$5.94	\$8.95
53-7011	Conveyor Operators and Tenders	190	200	10	5.3%	<5	10	10	Short-term on-the-job training	\$28,830	\$9.36	\$16.11
53-7021	Crane and Tower Operators	160	180	20	12.5%	<5	<5	<5	Long-term on-the-job training	\$43,943	\$13.68	\$24.85
53-7031	Dredge Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7032	Excavating and Loading Machine and Dragline Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	\$38,618	\$13.52	\$21.09

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
53-7033	Loading Machine Operators, Underground Mining	10	10	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7041	Hoist and Winch Operators	20	20	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7051	Industrial Truck and Tractor Operators	4,210	4,540	330	7.8%	30	80	110	Short-term on-the-job training	\$29,963	\$10.66	\$16.28
53-7061	Cleaners of Vehicles and Equipment	1,870	2,000	130	7.0%	10	70	80	Short-term on-the-job training	\$19,311	\$6.30	\$10.77
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	14,830	15,930	1,100	7.4%	110	490	600	Short-term on-the-job training	\$24,504	\$7.77	\$13.78
53-7063	Machine Feeders and Offbearers	910	780	-130	-14.3%	<5	30	30	Short-term on-the-job training	\$26,717	\$9.55	\$14.49
53-7064	Packers and Packagers, Hand	6,470	7,220	750	11.6%	80	120	200	Short-term on-the-job training	\$21,181	\$6.67	\$11.94
53-7071	Gas Compressor and Gas Pumping Station Operators	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7072	Pump Operators, Except Wellhead Pumps	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7073	Wellhead Pumps	0	0	0	0.0%	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7081	Refuse and Recyclable Material Collectors	230	240	10	4.3%	<5	10	10	Short-term on-the-job training	\$33,853	\$9.70	\$19.56

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		2004	2014	Change	% Change	New Jobs	Replacements ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾
53-7111	Shuttle Car Operators	*	*	*	*	<5	<5	<5	Short-term on-the-job training	*	*	*
53-7121	Tank Car, Truck, and Ship Loaders	*	*	*	*	<5	<5	<5	Moderate-term on-the-job training	*	*	*
53-7199	Material Moving Workers, All Other	430	380	-50	-11.6%	<5	10	10	Moderate-term on-the-job training	\$35,336	\$7.97	\$21.50

Notes:

(1) **Employment** is a count of jobs rather than people, and includes all part- and full-time nonfarm jobs. Employment does not include self-employed, unpaid family, and railroad workers. Employment is rounded to the nearest ten, with employment less than five rounded to zero. Totals may not add due to rounding.

(2) **Replacements** are an estimate of the number of job openings expected because people have permanently left a given occupation. Permanent exits occur if someone dies, retires, or otherwise leaves the labor force. Permanent exits also include openings resulting from someone permanently changing occupations. For example, a person leaves their job as a cashier and becomes a truck driver. Openings resulting from people changing employers, but staying in the same occupation are not included.

(3) **Total openings** are the sum of new jobs and replacements. Total openings are an indication of how many new people are needed to enter a given occupation.

(4) **Typical Education and Training Path** gives a general indication of the education or training typically needed in a given occupation. There may be other pathways into the occupation, as well as additional educational, training, or licensing requirements.

Short-Term On-the-Job Training: These occupations require no more than one month of on-the-job training and the training usually happens at the workplace.

Moderate-Term On-the-Job Training: Training for these occupations usually occurs at the workplace and lasts from one to twelve months.

Long-Term On-the-Job Training: These occupations require more than one year of on-the-job training, or combined work experience and classroom instruction.

Work Experience in Related Occupation: Occupations in this category require skills and experience gained in other jobs.

Postsecondary Vocational Training: These formal training programs last from a few weeks to more than a year, and are offered at vocational or technical schools.

Associate Degree: This degree requires two years of full-time academic work beyond high school.

Bachelor's Degree: This degree requires four or five years of full-time academic work at a college or university.

Master's Degree: This degree requires one to two years of full-time study beyond a bachelor's degree.

Doctoral Degree: This degree usually requires at least three years of full-time study beyond a bachelor's degree.

First Professional Degree: These degrees typically require at least two years of full-time study beyond a bachelor's degree.

Bachelor's or higher degree, plus work experience: These occupations require a bachelor's or higher degree, in addition to work experience in a related non-managerial position.

(5) **Average Annual Salary:** An occupation's average hourly wage is calculated by summing the wages of all employees in a given occupation and then dividing by the total number of employees in that occupation. In most cases, the annual average salary is equal to the average hourly wage multiplied by 2,080.

(6) **Entry Level Hourly Wage** is the average of the lower third of wages that are paid in a given occupation.

Occupational Projections for Milwaukee and WOW Wisconsin Workforce Development Areas, 2004-2014 Projections

(Milwaukee, Ozaukee, Washington, and Waukesha Counties)

SOC Code	Occupational Title	Estimated Employment ⁽¹⁾				Estimated Average Annual Openings ⁽¹⁾			Typical Education and Training Path ⁽⁴⁾	Estimated Salary and Wages (2005)		
		2004	2014	Change	% Change	New Jobs	Replace- ments ⁽²⁾	Total ⁽³⁾		Average Annual Salary ⁽⁵⁾	Entry Level Hourly Wage ⁽⁶⁾	Experienced Hourly Wage ⁽⁷⁾

(7) **Experienced Hourly Wage** is the average of the upper two-thirds of wages that are paid in a given occupation.

(8) Depending upon the specific position and employer either an Associate or Bachelor's degree are most common.

* Data is suppressed to preserve the confidentiality of employers.

Projections information is derived using the November 2004 OES Survey, 2004 QCEW and 2004 CES (3/2005 Benchmark) data. Unpublished data from the US Bureau of Labor Statistics and US Census Bureau was also used. Wage information derived from the May 2005 Estimates Delivery System.

To the extent possible, the projections take into account anticipated changes in Wisconsin's economy from 2004 to 2014. It is important to note unanticipated events may affect the accuracy of these projections.

Projections Methodology

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